Federal Emergency Management Agency

Washington, D.C. 20472

OCT 21 2003

MAYOR'S OFFICE
03 OCT 30 AM 8:23

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Tom Rutherford
Chair, Board of County Commissioners
Bernalillo County
One Civic Plaza N.W.
Albuquerque, NM 87102

Follows Conditional Case No.: 02-06-600R
IN REPLY REFER TO:

Case Number: **03-06-1742P**
Community Name: Bernalillo County, New Mexico (Unincorporated Areas)
Community Number: 350001
Effective Date of this Revision: OCT 21 2003

Dear Mr. Rutherford:

The Flood Insurance Study (FIS) report and Flood Insurance Rate Map (FIRM) for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed that provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer (CCO) for your community. If you have any technical questions regarding this LOMR, please contact the Director, Federal Insurance and Mitigation Division of the Federal Emergency Management Agency (FEMA) in Denton, Texas, at (940) 898-5165, or the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Sincerely,

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and
Response Directorate

For: Doug Bellomo, P.E., Acting Chief
Hazard Identification Section
Mitigation Division
Emergency Preparedness
and Response Directorate

List of Enclosures:
- Letter of Map Revision Determination Document
- Annotated Flood Insurance Study Report
- Annotated Flood Insurance Rate Map
- List of Current Flood Insurance Study Data

cc: Carlos A. Montoya, City/County Floodplain Administrator
The Honorable Martin J. Chavez, Mayor, City of Albuquerque
Diane Hoelzer, P.E., Mark Goodwin & Associates
Community Map Repository, Bernalillo County

 | Issue Date: October 21, 2003 | Effective Date: October 21, 2003 | Case No.: 03-06-1742P | LOMR-APP

Follows Conditional Case No.: 02-06-600R

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	BERNALILLO COUNTY, NEW MEXICO (UNINCORPORATED AREAS) COMMUNITY NO.: 350001	CHANNEL RELOCATION STORM SEWER SYSTEM FILL	BASE MAP CHANGES HYDROLOGIC ANALYSIS HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
IDENTIFIER	SUNRISE RANCH WEST	APPROXIMATE LATITUDE & LONGITUDE: 35.095, -106.656 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
FLOODING SOURCE & REVISED REACH	ARROYO B-B - from approximately 50 feet upstream of Sunset Gardens Road to approximately 75 feet downstream of Eucariz Avenue		

SUMMARY OF REVISIONS

Effective Flooding:	Zone AO
Revised Flooding:	X (unshaded)
Increases:	NONE
Decreases:	YES

ANNOTATED MAPPING ENCLOSURES			ANNOTATED STUDY ENCLOSURES
TYPE: FIRM*	NO: 35001C0309 D	Date: September 20, 1996	NO REVISION TO THE FLOOD INSURANCE STUDY
FIRM	NO: 35001C0328 D	Date: September 20, 1996	

* FIRM - Flood Insurance Rate Map

DETERMINATION

This document provides the determination from the Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Kevin C. Long

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Mitigation Division
Emergency Preparedness
and Response Directorate

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 350002 Name: CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

AFFECTED MAP PANELS			AFFECTED PORTIONS of the FLOOD INSURANCE STUDY
TYPE: FIRM	NO: 35001C0309 D	Date: September 20, 1996	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 2, 2002
FIRM	NO: 35001C0328 D	Date: September 20, 1996	STILLWATER ELEVATION TABLE

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Mitigation Division
Emergency Preparedness
and Response Directorate

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the modified channel and storm sewer system rests with your community. We may request that your community submit a description and schedule of channel and storm sewer activities.

This revision has met our criteria for removing an area from the 1% annual chance floodplain to reflect the placement of fill. The community must ensure that any structures placed within the subject area be constructed such that they are "reasonably safe from flooding." "Reasonably safe from flooding" means base flood waters will not inundate the land or damage structures to be removed from the SFHA and that any subsurface waters related to the base flood will not damage existing or proposed buildings. The community and engineers should review and use *FEMA Technical Bulletin 10-01, Ensuring That Structures Built on Fill In or Near Special Flood Hazard Areas Are Reasonably Safe From Flooding*, which may be downloaded directly from the Federal Emergency Management Agency (FEMA) website at http://www.fema.gov/pdf/fima/tb1001.pdf.

COMMUNITY REMINDERS

We based this determination on the 1% annual chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State law have been obtained. State or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION (CONTINUED)

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

We have enclosed a document, titled *List of Current Flood Insurance Study Data*, which includes this letter, to help your community maintain all information for floodplain management and flood insurance. If any of the items in that document are not filed in your community's map repository, please contact the FEMA Map Assistance Center at the number listed below for information on how to obtain those items.

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Frank Pagano
Director, Federal Insurance and Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 206
800 North Loop 288
Denton, Texas 76209-3698
(940) 898-5127

STATUS OF THE COMMUNITY NFIP MAPS

We are processing a FIRM and FIS report for Bernalillo County, New Mexico, and its incorporated areas, in our countywide format. The countywide FIRM and FIS report, which include flood hazard information for your community, will become effective on November 19, 2003. Because the effective date has already been established, we will not incorporate the modifications made by this LOMR into the countywide FIRM and FIS report before they become effective. Therefore, the modifications made by this LOMR will be superceded when the countywide FIRM and FIS report become effective. After the effective date, we will issue a letter to revalidate the modifications made by this LOMR and revise the newly effective FIRM and FIS report.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. This revision is effective as of the date of this letter. However, until the 90-day period elapses, the revised BFEs presented in this LOMR may be changed.

This information will be published in the *Federal Register* and your local newspaper as detailed below.

LOCAL NEWSPAPER Name: *Albuquerque Journal*
Dates: 11/06/2003 11/13/2003

PUBLIC NOTIFICATION				
FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NGVD)		MAP PANEL NUMBER
		EFFECTIVE	REVISED	
ARROYO B-B	Approximately 50 feet upstream of Sunset Gardens Road	Depth 1 foot	None	35001C0309 D
	Approximately 75 feet downstream of Eucariz Avenue	Depth 1 foot	None	35001C0328 D

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Hazard Identification Section
Mitigation Division
Emergency Preparedness
and Response Directorate

LIST OF CURRENT FLOOD INSURANCE STUDY DATA

This list is provided to document all information currently effective for your community for insurance and floodplain management.

Date: OCT 21 2003

Community: Bernalillo County, New Mexico (Unincorporated Areas)

Community Number: 350001

Page Number: 1 of 4

CURRENT EFFECTIVE FLOOD INSURANCE STUDY DATE: April 2, 2002

FLOOD INSURANCE RATE MAP

Map Index	Effective Date
35001CIND0	April 2, 2002

Panel Numbers	Effective Date
0075 D, 0092 D, 0094 D, 0100 D, 0103 D, 0104 D, 0108 D, 0111 D, 0112 D, 0113 D, 0114 D, 0118 D, 0119 D, 0138 D, 0139 D, 0153 D, 0165 D, 0186 D, 0187 D, 0189 D, 0193 D, 0275 D, 0287 D, 0289 D, 0291 D, 0293 D, 0300 D, 0307 D, 0308 D, 0309 D, 0316 D, 0317 D, 0319 D, 0325 D, 0326 D, 0327 D, 0328 D, 0329 D, 0331 D, 0332 D, 0333 D, 0336 D, 0337 D, 0338 D, 0339 D, 0341 D, 0342 D, 0343 D, 0344 D, 0351 D, 0354 D, 0361 D, 0362 D, 0363 D, 0364 D, 0366 D, 0376 D, 0378 D, 0384 D, 0401 D, 0500 D, 0507 D, 0525 D, 0526 D, 0527 D, 0528 D, 0529 D, 0531 D, 0533 D, 0535 D, and 0555 D	September 20, 1996

Panel Numbers	Effective Date
0109 E, 0116 E, 0117 E, 0128 E, 0129 E, 0133 E, 0134 E, 0136 E, 0137 E, 0141 E, 0142 E, 0161 E, 0163 E, 0358 E, 0367 E, and 0386 E	April 2, 2002

LETTERS OF MAP REVISION

Panel Numbers	Effective Date
0108 D	December 20, 1996 February 4, 1999
0114 D	January 26, 1998
0119 D	January 8, 2003
0138 D	January 8, 2003
0309 D	OCT 21 2003
0319 D	January 29, 2002
0326 D	September 5, 1997
0328 D	October 3, 1997 November 8, 2001 June 13, 2003 August 15, 2003 OCT 21 2003
0329 D	October 31, 1997
0331 D	July 17,1998
0336 D	July 17,1998
0338 D	June 18, 1998 January 29, 2002
0339 D	June 18, 1998
0343 D	April 4, 1997 April 11, 1997
0344 D	April 4, 1997 April 11, 1997
0351 D	January 8, 2003
0367 E	August 1, 2002

LETTERS OF MAP REVISION *(continued)*

Panel Numbers	Effective Date
0527 D	June 18, 1998
0529 D	June 18, 1998
0531 D	September 10, 2002

LETTERS OF MAP AMENDMENT AND MAP REVISION BASED ON FILL

Panel Numbers	Effective Date
0109 E	July 10, 2002
0117 E	June 14, 2002
0153 D	August 20, 1997
0161 E	July 31, 2002 December 4, 2002
0287 D	November 3, 1999
0333 D	December 17, 1997 December 23, 1997 August 5, 1999
0337 D	July 18, 1997 April 13,1998 October 5, 1998 March 26, 1999 July 11, 2000 December 20, 2000 April 9, 2003 June 4, 2003
0338 D	May 3, 2000
0339 D	April 7, 1998 June 16, 1998 November 13, 1998 April 23, 1999 February 29, 2000 June 6, 2001

LETTERS OF MAP AMENDMENT AND MAP REVISION BASED ON FILL *(continued)*

Panel Numbers	Effective Date
0339 D *(cont.)*	December 7, 2001 January 8, 2003
0341 D	June 15, 1998 December 24, 1998 December 8, 2000 October 15, 2001 March 27, 2002
0343 D	December 15, 1997 December 6, 1999 June 6, 2000 November 27, 2001
0531 D	November 25, 1998 June 25, 2003

BEST AVAILABLE DATA LETTERS

None

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO AND BERNALILLO COUNTY, NEW MEXICO (UNICORPORATED AREAS), UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On September 20, 1996, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in Bernalillo County, New Mexico and Incorporated Areas, which includes the City of Albuquerque and the unincorporated areas of Bernalillo County, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Division has determined that modification of the elevations of the flood having a 1% chance of being equaled or exceeded in any given year (base or 100-year flood) for certain locations in this community is appropriate. The modified Base Flood Elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

Hydrologic and hydraulic analyses were performed to incorporate the construction of a storm sewer system and two unnamed detention ponds, and the channel relocation of Arroyo B-B in association with the Sunrise Ranch West project. The project has resulted in a revised delineation of the SFHA and revised BFEs for Arroyo B-B and two unnamed detention ponds. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding sources cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Arroyo B-B		
Approximately 50 feet upstream of Sunset Gardens Road	Depth 1 foot	None
Approximately 75 feet downstream of Eucariz Avenue	Depth 1 foot	None
Unnamed Ponding Area		
At the northeast corner of the intersection of 106th Street and Eucariz Avenue	None	5,246
Unnamed Ponding Area		
Southeast of the intersection of Cactus Point Drive and Duke Avenue and north of Eucariz Avenue	None	5,228

*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Division must develop criteria for floodplain management. For the community to participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium

rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

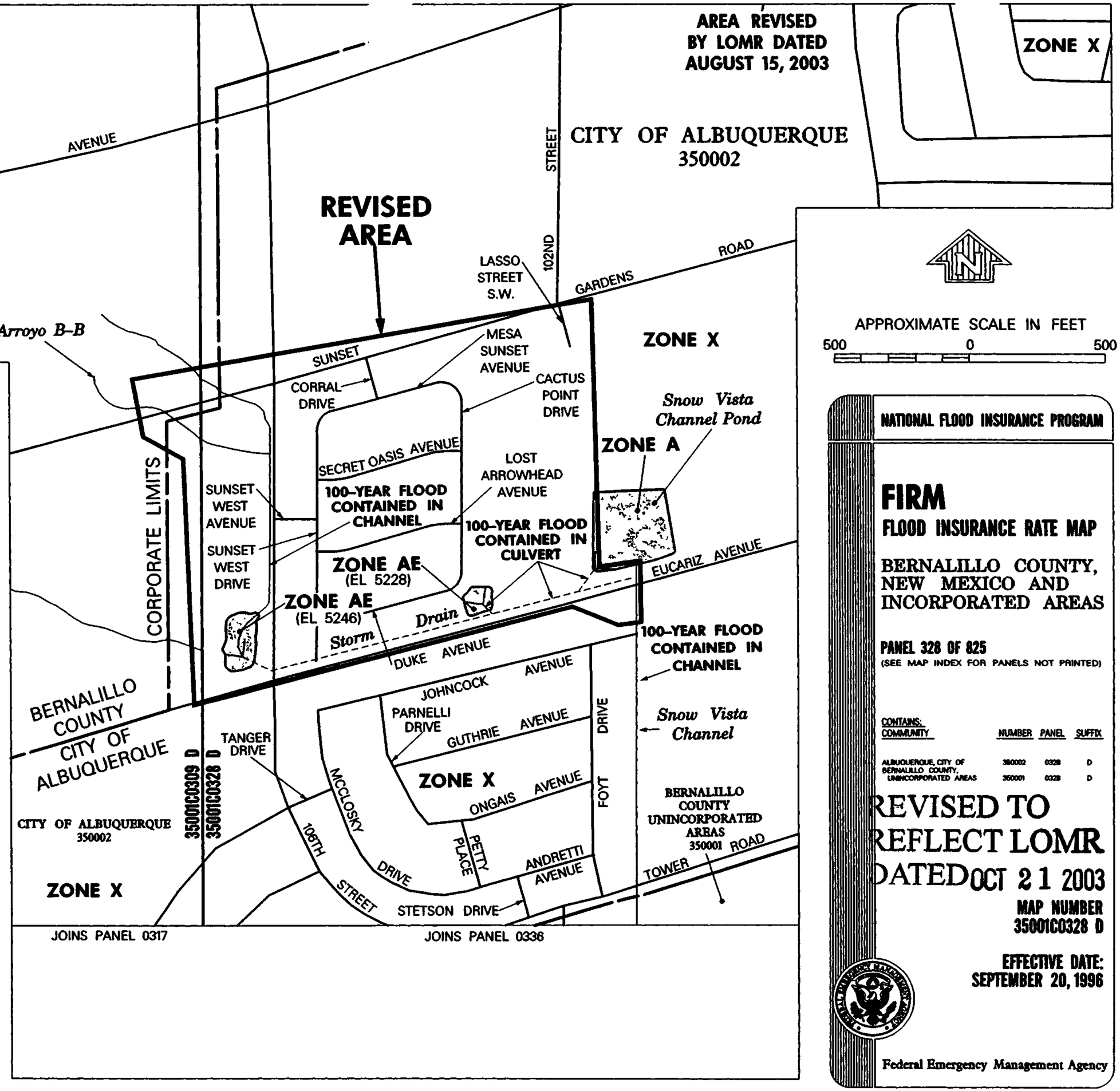
Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Division reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Division's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
Office of the Mayor
P.O. Box 1293
Albuquerque, NM 87103

or

Mr. Tom Rutherford
Chair, Board of County Commissioners
Bernalillo County
One Civic Plaza N.W.
Albuquerque, NM 87102



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY,
NEW MEXICO AND
INCORPORATED AREAS

PANEL 309 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0309	D
BERNALILLO COUNTY, UNINCORPORATED AREAS	350001	0309	D

REVISED TO
REFLECT LOMR
DATED OCT 21 2003

MAP NUMBER
35001C0309 D

EFFECTIVE DATE:
SEPTEMBER 20, 1996

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY,
NEW MEXICO AND
INCORPORATED AREAS

PANEL 328 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0328	D
BERNALILLO COUNTY, UNINCORPORATED AREAS	350001	0328	D

REVISED TO
REFLECT LOMR
DATED OCT 21 2003

MAP NUMBER
35001C0328 D

EFFECTIVE DATE:
SEPTEMBER 20, 1996

Federal Emergency Management Agency

TABLE 6 – SUMMARY OF STILLWATER ELEVATIONS

FLOODING SOURCE AND LOCATION	PEAK ELEVATION (FEET NGVD) 10-YEAR	50-YEAR	100-YEAR	500-YEAR
Pond 1	5,391.4	5,393.7	5,394.6	5,395.3
Pond 2	5,470.6	5,472.3	5,472.6	5,473.0
Pond 3	5,526.3	5,528.9	5,530.0	5,530.4
Pond 4	5,572.1	5,572.8	5,573.1	5,573.6
North Domingo Baca Dam	5,737.5	5,745.2	5,748.0	5,750.5
South Domingo Baca Dam	5,898.0	5,908.5	5,912.6	5,918.6
Revised to Reflect LOMR dated June 13, 2003				
Approximately 600 feet northwest of Interstate 40				
Pond D	*	*	5,199.2	*
Pond E	*	*	5,207.1	*
Pond F	*	*	5,211.1	*
Pond G	*	*	5,218.2	*
Pond J	*	*	5,223.2	*
Pond K	*	*	5,230.3	*
Unnamed Pond Area bounded by Sunset Gardens Road to the north, 106th Street to the east, and Eucariz Avenue to the south	*	*	5,245.9	*
Unnamed Pond Area bounded by Duke Avenue to the north and Eucariz Avenue to the south	*	*	5,228.1	*

*Data not available

Revised Area

REVISED TO REFLECT LOMR DATED OCT 21 2003

#56

Federal Emergency Management Agency

Washington, D.C. 20472

NOV 20 2003

MAYOR'S OFFICE
03 NOV 32 AM 8:38

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
Office of the Mayor
P.O. Box 1293
Albuquerque, NM 87103

IN REPLY REFER TO:

Case Number: **04-06-242P**
Community Name: City of Albuquerque, Bernalillo County, New Mexico
Community Number: 350002
Effective Date of this Revision: NOV 20 2003

Dear Mayor Chavez:

The Flood Insurance Study (FIS) report and Flood Insurance Rate Map (FIRM) for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed that provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer (CCO) for your community. If you have any technical questions regarding this LOMR, please contact the Director, Federal Insurance and Mitigation Division of the Federal Emergency Management Agency (FEMA) in Denton, Texas, at (940) 898-5165, or the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Sincerely,

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and Response Directorate

For: Doug Bellomo, P.E., Acting Chief
Hazard Identification Section
Mitigation Division
Emergency Preparedness and Response Directorate

List of Enclosures:

Letter of Map Revision Determination Document
Annotated Flood Insurance Study Report
Annotated Flood Insurance Rate Map
List of Current Flood Insurance Study Data

cc: Carlos A. Montoya, City/County Floodplain Administrator
Tom Rutherford, Chair, Board of County Commissioners, Bernalillo County
Diane Hoelzer, P.E., Mark Goodwin & Associates
Community Map Repository

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO COMMUNITY NO.: 350002	CHANNEL RELOCATION STORM SEWER SYSTEM FILL	REISSUANCE
IDENTIFIER	REISSUANCE OF LOMR CASE 03-06-1742P, DATED OCTOBER 21, 2003	APPROXIMATE LATITUDE & LONGITUDE: 35.095, -106.656 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
FLOODING SOURCE & REVISED REACH	ARROYO B-B - from approximately 50 feet upstream of Sunset Gardens Road to approximately 75 feet downstream of Eucariz Avenue		

SUMMARY OF REVISIONS

Effective Flooding: Zone AO
Revised Flooding: X (unshaded)
Increases: NONE
Decreases: YES

ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES
TYPE: FIRM* NO: 35001C0309 E Date: November 19, 2003 FIRM NO: 35001C0328 E Date: November 19, 2003	NO REVISION TO THE FLOOD INSURANCE STUDY

* FIRM - Flood Insurance Rate Map

DETERMINATION

This document provides the determination from the Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Response Directorate

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO	DETENTION BASIN	REISSUANCE
	COMMUNITY NO.: 350002		
IDENTIFIER	REISSUANCE OF LOMR CASE 03-06-1742P, DATED OCTOBER 21, 2003	APPROXIMATE LATITUDE & LONGITUDE: 35.095, -106.656 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
FLOODING SOURCE & REVISED REACH	UNNAMED PONDING AREA – at the northwest corner of the intersection of 106th Street and Eucariz Avenue		

SUMMARY OF REVISIONS

Effective Flooding:	Zone A	Zone A
Revised Flooding:	Zone AE	BFEs*
Increases:	NONE	YES
Decreases:	YES	NONE

* BFEs - Base Flood Elevations

ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES
TYPE: FIRM* NO: 35001C0328 E Date: November 19, 2003	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 19, 2003 STILLWATER ELEVATION TABLE

* FIRM - Flood Insurance Rate Map

DETERMINATION

This document provides the determination from the Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and
Response Directorate

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO	CHANNELIZATION STORM SEWER SYSTEM	REISSUANCE
	COMMUNITY NO.: 350002		
IDENTIFIER	REISSUANCE OF LOMR CASE 03-06-1742P, DATED OCTOBER 21, 2003	APPROXIMATE LATITUDE & LONGITUDE: 35.095, -106.656 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
FLOODING SOURCE & REVISED REACH	UNNAMED PONDING AREA – southeast of the intersection of Cactus Point Drive and Duke Avenue and north of Eucariz Avenue		

SUMMARY OF REVISIONS

ctive Flooding:	X (unshaded)	X (unshaded)
sed Flooding:	Zone AE	BFEs*
reases:	YES	YES
Decreases:	NONE	NONE

* BFEs - Base Flood Elevations

ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES
TYPE: FIRM* NO: 35001C0328 E Date: November 19, 2003	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 19, 2003 STILLWATER ELEVATION TABLE

* FIRM - Flood Insurance Rate Map

DETERMINATION

This document provides the determination from the Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 350001 Name: BERNALLILO COUNTY, NEW MEXICO (UNINCORPORATED AREAS)

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY
TYPE: FIRM NO: 35001C0309 E Date: November 19, 2003	NO REVISION TO THE FLOOD INSURANCE STUDY

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Federal Emergency Management Agency

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the modified channel and storm sewer system rests with your community. We may request that your community submit a description and schedule of channel and storm sewer activities.

This revision has met our criteria for removing an area from the 1% annual chance floodplain to reflect the placement of fill. The community must ensure that any structures placed within the subject area be constructed such that they are "reasonably from flooding." "Reasonably safe from flooding" means base flood waters will not inundate the land or damage uctures to be removed from the SFHA and that any subsurface waters related to the base flood will not damage existing or proposed buildings. The community and engineers should review and use *FEMA Technical Bulletin 10-01, Ensuring That Structures Built on Fill In or Near Special Flood Hazard Areas Are Reasonably Safe From Flooding*, which may be downloaded directly from the Federal Emergency Management Agency (FEMA) website at http://www.fema.gov/pdf/fima/tb1001.pdf.

COMMUNITY REMINDERS

We based this determination on the 1% annual chance discharges computed in the submitted hydrologic model for LOMR Case 03-06-1742P, dated October 21, 2003. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State law have been obtained. State or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION (CONTINUED)

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

We have enclosed a document, titled *List of Current Flood Insurance Study Data*, which includes this letter, to help your community maintain all information for floodplain management and flood insurance. If any of the items in that document are not filed in your community's map repository, please contact the FEMA Map Assistance Center at the number listed below for information on how to obtain those items.

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Frank Pagano
Director, Federal Insurance and Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 206
800 North Loop 288
Denton, Texas 76209-3698
(940) 898-5127

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. This revision is effective as of the date of this letter. However, until the 90-day period elapses, the revised BFEs presented in this LOMR may be changed.

This information will be published in the *Federal Register* and your local newspaper as detailed below.

LOCAL NEWSPAPER Name: *Albuquerque Journal*
Dates: 12/22/2003 12/29/2003

PUBLIC NOTIFICATION				
FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NAVD)		MAP PANEL NUMBER
		EFFECTIVE	REVISED	
ARROYO B-B	Approximately 50 feet upstream of Sunset Gardens Road	Depth 1 foot	None	35001C0309 E
	Approximately 75 feet downstream of Eucariz Avenue	Depth 1 foot	None	35001C0328 E
UNNAMED PONDING AREA	At the northwest corner of the intersection of 106th Street and Eucariz Avenue	None	5,249	35001C0328 E
UNNAMED PONDING AREA	Southeast of the intersection of Cactus Point Drive and Duke Avenue and north of Eucariz Avenue	None	5,231	35001C0328 E

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and
Response Directorate

LIST OF CURRENT FLOOD INSURANCE STUDY DATA

This list is provided to document all information currently effective for your community for insurance and floodplain management.

Date: NOV 20 2003

Community: City of Albuquerque, Bernalillo County, New Mexico

Community Number: 350002

Page Number: 1 of 2

CURRENT EFFECTIVE FLOOD INSURANCE STUDY DATE: November 19, 2003

FLOOD INSURANCE RATE MAP

Map Index	Effective Date
35001CIND0	November 19, 2003

Panel Numbers	Effective Date
0092 E, 0094 E, 0100 E, 0103 E, 0104 E, 0108 E, 0111 E, 0112 E, 0113 E, 0114 E, 0118 E, 0119 E, 0138 E, 0139 E, 0143 E, 0307 E, 0309 E, 0317 E, 0319 E, 0326 E, 0327 E, 0328 E, 0329 E, 0331 E, 0332 E, 0333 E, 0334 E, 0336 E, 0337 E, 0338 E, 0339 E, 0341 E, 0342 E, 0344 E, 0351 E, 0352 E, 0353 E, 0354 E, 0356 E, 0357 E, 0361 E, 0362 E, 0363 E, 0364 E, 0366 E, 0376 E, 0378 E, 0527 E, 0531 E, 0533 E, 0535 E, and 0555 E	November 19, 2003

Panel Numbers	Effective Date
0109 F, 0116 F, 0128 F, 0129 F, 0133 F, 0136 F, 0137 F, 0141 F, 0142 F, 0144 F, 0161 F, 0163 F, 0358 F, 0359 F, 0367 F, and 0386 F	November 19, 2003

LETTERS OF MAP REVISION

Panel Numbers	Effective Date
0309 E	NOV 20 2003
0328 E	NOV 20 2003

LETTERS OF MAP AMENDMENT AND MAP REVISION BASED ON FILL

None

BEST AVAILABLE DATA LETTERS

None

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO AND BERNALILLO COUNTY, NEW MEXICO (UNICORPORATED AREAS), UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On November 19, 2003, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in Bernalillo County, New Mexico and Incorporated Areas, which includes the City of Albuquerque and the unincorporated areas of Bernalillo County, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Division has determined that modification of the elevations of the flood having a 1% chance of being equaled or exceeded in any given year (base or 100-year flood) for certain locations in this community is appropriate. The modified Base Flood Elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

LOMR Case Number 03-06-1742P, dated October 21, 2003, is being reissued since it was superseded by the above-mentioned November 19, 2003 FIRM. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding sources cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Arroyo B-B		
Approximately 50 feet upstream of Sunset Gardens Road	Depth 1 foot	None
Approximately 75 feet downstream of Eucariz Avenue	Depth 1 foot	None
Unnamed Ponding Area		
At the northeast corner of the intersection of 106th Street and Eucariz Avenue	None	5,249
Unnamed Ponding Area		
Southeast of the intersection of Cactus Point Drive and Duke Avenue and north of Eucariz Avenue	None	5,231

*North American Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Division must develop criteria for floodplain management. For the community to participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Division reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Division's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
Office of the Mayor
P.O. Box 1293
Albuquerque, NM 87103

or

Mr. Tom Rutherford
Chair, Board of County Commissioners
Bernalillo County
One Civic Plaza N.W.
Albuquerque, NM 87102

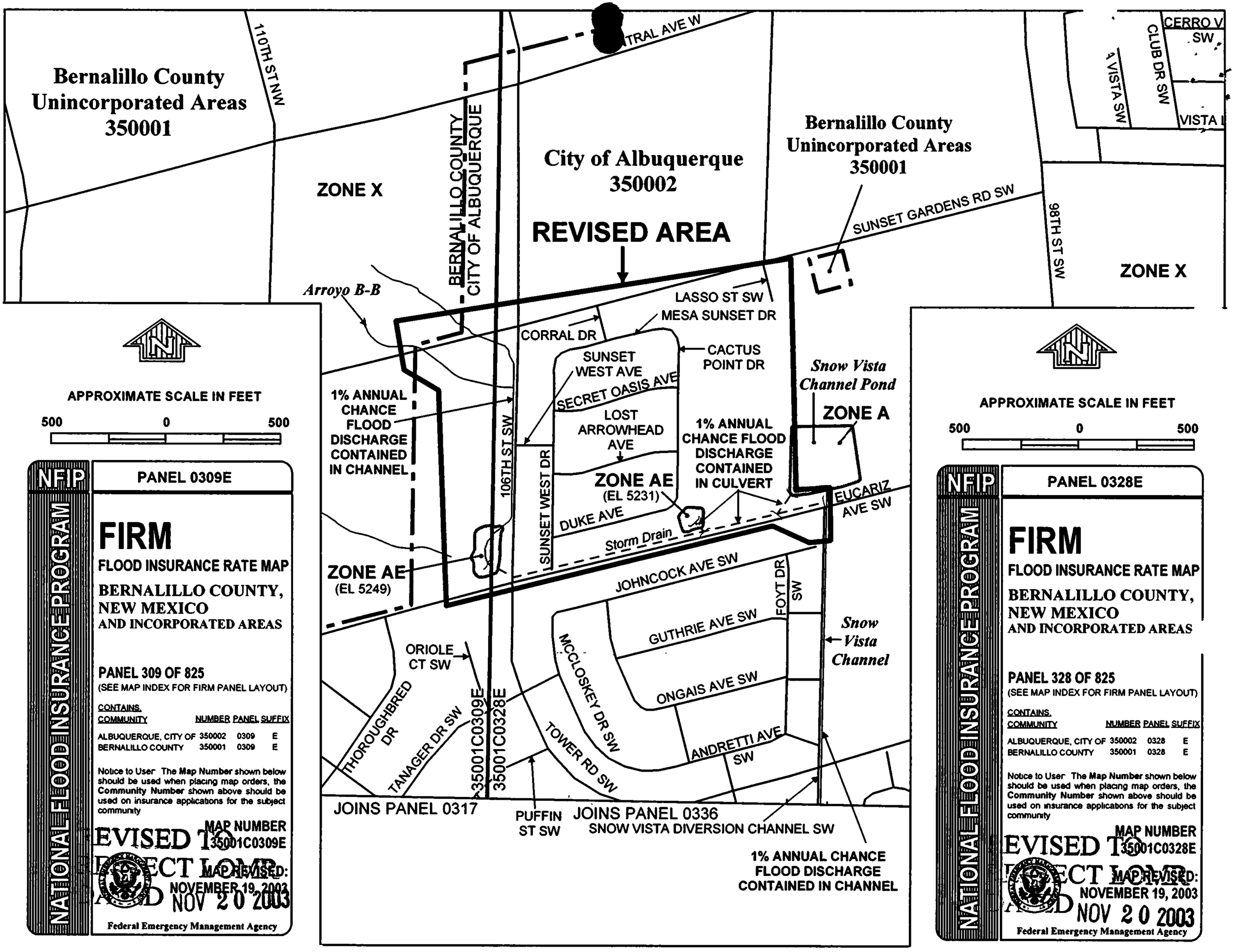
Bernalillo County
Unincorporated Areas
350001
110TH ST NW
ZONE X
BERNALILLO COUNTY
CITY OF ALBUQUERQUE
City of Albuquerque
350002
REVISED AREA
Bernalillo County
Unincorporated Areas
350001
SUNSET GARDENS RD SW
98TH ST SW
ZONE X
CERRO V
SW
CLUB DR SW
VISTA SW
VISTA
Arroyo B-B
LASSO ST SW
MESA SUNSET DR
CORRAL DR
SUNSET
WEST AVE
CACTUS
POINT DR
SECRET OASIS AVE
LOST
ARROWHEAD
AVE
Snow Vista
Channel Pond
ZONE A
1% ANNUAL
CHANCE
FLOOD
DISCHARGE
CONTAINED
IN CHANNEL
106TH ST SW
SUNSET WEST DR
1% ANNUAL
CHANCE FLOOD
DISCHARGE
CONTAINED
IN CULVERT
ZONE AE
(EL 5231)
EUCARIZ
AVE SW
DUKE AVE
Storm Drain
ZONE AE
(EL 5249)
JOHNCOCK AVE SW
FOYT DR
SW
GUTHRIE AVE SW
Snow
Vista
Channel
ORIOLE
CT SW
MCCLOSKEY DR SW
ONGAIS AVE SW
THOROUGHBRED
DR
TANAGER DR SW
35001C0309E
35001C0328E
TOWER RD SW
ANDRETTI AVE
SW
JOINS PANEL 0317
PUFFIN
ST SW
JOINS PANEL 0336
SNOW VISTA DIVERSION CHANNEL SW
1% ANNUAL CHANCE
FLOOD DISCHARGE
CONTAINED IN CHANNEL
APPROXIMATE SCALE IN FEET
500 0 500
NFIP
NATIONAL FLOOD INSURANCE PROGRAM
PANEL 0309E
FIRM
FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY,
NEW MEXICO
AND INCORPORATED AREAS
PANEL 309 OF 825
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
ALBUQUERQUE, CITY OF 350002 0309 E
BERNALILLO COUNTY 350001 0309 E
Notice to User The Map Number shown below should be used when placing map orders, the Community Number shown above should be used on insurance applications for the subject community
MAP NUMBER
35001C0309E
MAP REVISED:
NOVEMBER 19, 2003
REVISED TO
REFLECT LOMR
ADD NOV 20 2003
Federal Emergency Management Agency
APPROXIMATE SCALE IN FEET
500 0 500
NFIP
NATIONAL FLOOD INSURANCE PROGRAM
PANEL 0328E
FIRM
FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY,
NEW MEXICO
AND INCORPORATED AREAS
PANEL 328 OF 825
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
ALBUQUERQUE, CITY OF 350002 0328 E
BERNALILLO COUNTY 350001 0328 E
Notice to User The Map Number shown below should be used when placing map orders, the Community Number shown above should be used on insurance applications for the subject community
MAP NUMBER
35001C0328E
MAP REVISED:
NOVEMBER 19, 2003
REVISED TO
REFLECT LOMR
ADD NOV 20 2003
Federal Emergency Management Agency

Table 4 - Summary of Stillwater Elevations *(Continued)*

Area	Pond Invert Elevation (feet NAVD[1])	Water Surface Elevations (feet NAVD[1]) 10-percent-annual-chance	2-percent-annual-chance	1-percent-annual-chance	0.2-percent-annual-chance
Pond No. 6	*	*	*	5,130	*
Pond No. 16A	*	*	*	5,108	*
Pond No. 16B	*	*	*	5,105	*
Ponding Area 7	*	*	*	5,197	*
Ponding Area 9	*	*	*	5,972	*
Ponding Area 10	*	*	*	5,990	*
Ponding Area 12	*	*	*	5,928	*
Ponding Area 13	*	*	*	5,523	*
Ponding Area 19	*	*	*	5,025	*
Ponding Area 20	*	*	*	5,414	*
Ponding Area 23	*	*	*	5,474	*
Ponding Area 25	*	*	*	5,031	*
Ponding Area 27	*	*	*	5,033	*
Ponding Area 28	*	*	*	5,030	*
Retention Pond	*	*	*	5,230	*
South Domingo Baca Dam	5878.8	5900.8	5911.3	5915.4	5921.4
Unnamed Pond Area bounded by Sunset Gardens Road to the north, 106th Street to the east, and Eucariz Avenue to the south	*	*	*	5,248.7	*
Unnamed Pond Area bounded by Duke Avenue to the north and Eucariz Avenue to the south	*	*	*	5,230.9	*

[1]North American Vertical Datum of 1988

*Data not available

Revised Area

REVISED TO
REFLECT LOMR
DATED NOV 20 2003

#56.5

Federal Emergency Management Agency

Washington, D.C. 20472

OCT 21 2003

MAYOR'S OFFICE

03 OCT 30 AM 8:22

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
Office of the Mayor
P.O. Box 1293
Albuquerque, NM 87103

Follows Conditional Case No.: 02-06-600R
IN REPLY REFER TO:

Case Number: [03-06-1742P]
Community Name: City of Albuquerque, Bernalillo County, New Mexico
Community Number: 350002
Effective Date of this Revision: **OCT 21 2003**

#328

Dear Mayor Chavez:

The Flood Insurance Study (FIS) report and Flood Insurance Rate Map (FIRM) for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed that provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer (CCO) for your community. If you have any technical questions regarding this LOMR, please contact the Director, Federal Insurance and Mitigation Division of the Federal Emergency Management Agency (FEMA) in Denton, Texas, at (940) 898-5165, or the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Sincerely,

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and
Response Directorate

For: Doug Bellomo, P.E., Acting Chief
Hazard Identification Section
Mitigation Division
Emergency Preparedness
and Response Directorate

List of Enclosures:

Letter of Map Revision Determination Document
Annotated Flood Insurance Study Report
Annotated Flood Insurance Rate Map
List of Current Flood Insurance Study Data

cc: Carlos A. Montoya, City/County Floodplain Administrator
Tom Rutherford, Chair, Board of County Commissioners, Bernalillo County
Diane Hoelzer, P.E., Mark Goodwin & Associates
Community Map Repository

Follows Conditional Case No.: 02-06-600R

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO COMMUNITY NO.: 350002	CHANNEL RELOCATION STORM SEWER SYSTEM FILL	BASE MAP CHANGES HYDROLOGIC ANALYSIS HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
IDENTIFIER	SUNRISE RANCH WEST	APPROXIMATE LATITUDE & LONGITUDE: 35.095, -106.656 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
FLOODING SOURCE & REVISED REACH	ARROYO B-B - from approximately 50 feet upstream of Sunset Gardens Road to approximately 75 feet downstream of Eucariz Avenue		

SUMMARY OF REVISIONS

Effective Flooding: Zone AO
Revised Flooding: X (unshaded)
Increases: NONE
Decreases: YES

ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES
TYPE: FIRM* NO: 35001C0309 D Date: September 20, 1996 FIRM NO: 35001C0328 D Date: September 20, 1996	NO REVISION TO THE FLOOD INSURANCE STUDY

* FIRM - Flood Insurance Rate Map

DETERMINATION

This document provides the determination from the Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Response Directorate

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO COMMUNITY NO.: 350002	DETENTION BASIN	BASE MAP CHANGES HYDROLOGIC ANALYSIS HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
IDENTIFIER	SUNRISE RANCH WEST	APPROXIMATE LATITUDE & LONGITUDE: 35.095, -106.656 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
FLOODING SOURCE & REVISED REACH	UNNAMED PONDING AREA – at the northwest corner of the intersection of 106th Street and Eucariz Avenue		

SUMMARY OF REVISIONS

ctive Flooding:	Zone A	Zone A
sed Flooding:	Zone AE	BFEs*
ıcreases:	NONE	YES
Decreases:	YES	NONE

* BFEs - Base Flood Elevations

ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES
TYPE: FIRM* NO: 35001C0328 D Date: September 20, 1996	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 2, 2002 STILLWATER ELEVATION TABLE

* FIRM - Flood Insurance Rate Map

DETERMINATION

This document provides the determination from the Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and
Response Directorate

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO	CHANNELIZATION STORM SEWER SYSTEM	BASE MAP CHANGES HYDROLOGIC ANALYSIS HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 350002		
IDENTIFIER	SUNRISE RANCH WEST	APPROXIMATE LATITUDE & LONGITUDE: 35.095, -106.656 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
FLOODING SOURCE & REVISED REACH	UNNAMED PONDING AREA – southeast of the intersection of Cactus Point Drive and Duke Avenue and north of Eucariz Avenue		

SUMMARY OF REVISIONS

Effective Flooding:	X (unshaded)	X (unshaded)
sed Flooding:	Zone AE	BFEs*
ases:	YES	YES
Decreases:	NONE	NONE

* BFEs - Base Flood Elevations

ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES
TYPE: FIRM* NO: 35001C0328 D Date: September 20, 1996	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 2, 2002 STILLWATER ELEVATION TABLE

* FIRM - Flood Insurance Rate Map

DETERMINATION

This document provides the determination from the Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Kevin C. Long

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Hazard Identification Section
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Federal Emergency Management Agency

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 350001 Name: BERNALLILO COUNTY, NEW MEXICO (UNINCORPORATED AREAS)

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY
TYPE: FIRM NO: 35001C0309 D Date: September 20, 1996	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 2, 2002 STILLWATER ELEVATION TABLE

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

CID Number: Name:

AFFECTED MAP PANELS	AFFECTED PORTIONS of the FLOOD INSURANCE STUDY

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and
Response Directorate

Federal Emergency Management Agency
Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the modified channel and storm sewer system rests with your community. We may request that your community submit a description and schedule of channel and storm sewer activities.

This revision has met our criteria for removing an area from the 1% annual chance floodplain to reflect the placement of fill. The community must ensure that any structures placed within the subject area be constructed such that they are "reasonably › from flooding." "Reasonably safe from flooding" means base flood waters will not inundate the land or damage ctures to be removed from the SFHA and that any subsurface waters related to the base flood will not damage existing or proposed buildings. The community and engineers should review and use *FEMA Technical Bulletin 10-01, Ensuring That Structures Built on Fill In or Near Special Flood Hazard Areas Are Reasonably Safe From Flooding*, which may be downloaded directly from the Federal Emergency Management Agency (FEMA) website at http://www.fema.gov/pdf/fima/tb1001.pdf.

COMMUNITY REMINDERS

We based this determination on the 1% annual chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State law have been obtained. State or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and
Response Directorate

Federal Emergency Management Agency
Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION (CONTINUED)

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

We have enclosed a document, titled *List of Current Flood Insurance Study Data*, which includes this letter, to help your community maintain all information for floodplain management and flood insurance. If any of the items in that document are not filed in your community's map repository, please contact the FEMA Map Assistance Center at the number listed below for information on how to obtain those items.

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Frank Pagano
Director, Federal Insurance and Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 206
800 North Loop 288
Denton, Texas 76209-3698
(940) 898-5127

STATUS OF THE COMMUNITY NFIP MAPS

We are processing a FIRM and FIS report for Bernalillo County, New Mexico, and its incorporated areas, in our countywide format. The countywide FIRM and FIS report, which include flood hazard information for your community, will become effective on November 19, 2003. Because the effective date has already been established, we will not incorporate the modifications made by this LOMR into the countywide FIRM and FIS report before they become effective. Therefore, the modifications made by this LOMR will be superceded when the countywide FIRM and FIS report become effective. After the effective date, we will issue a letter to revalidate the modifications made by this LOMR and revise the newly effective FIRM and FIS report.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. This revision is effective as of the date of this letter. However, until the 90-day period elapses, the revised BFEs presented in this LOMR may be changed.

This information will be published in the *Federal Register* and your local newspaper as detailed below.

LOCAL NEWSPAPER Name: *Albuquerque Journal*
Dates: 11/06/2003 11/13/2003

PUBLIC NOTIFICATION				
FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NGVD)		MAP PANEL NUMBER
		EFFECTIVE	REVISED	
ARROYO B-B	Approximately 50 feet upstream of Sunset Gardens Road	Depth 1 foot	None	35001C0309 D
	Approximately 75 feet downstream of Eucariz Avenue	Depth 1 foot	None	35001C0328 D
UNNAMED PONDING AREA	At the northwest corner of the intersection of 106th Street and Eucariz Avenue	None	5,246	35001C0328 D
UNNAMED PONDING AREA	Southeast of the intersection of Cactus Point Drive and Duke Avenue and north of Eucariz Avenue	None	5,228	35001C0328 D

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness and
Response Directorate

LIST OF CURRENT FLOOD INSURANCE STUDY DATA

This list is provided to document all information currently effective for your community for insurance and floodplain management.

Date: OCT 21 2003

Community: City of Albuquerque, Bernalillo County, New Mexico

Community Number: 350002

Page Number: 1 of 5

CURRENT EFFECTIVE FLOOD INSURANCE STUDY DATE: September 20, 1996

FLOOD INSURANCE RATE MAP

Map Index	Effective Date
350001CIND0	April 2, 2002

Panel Numbers	Effective Date
0092 D, 0094 D, 0100 D, 0103 D, 0104 D, 0108 D, 0111 D, 0112 D, 0113 D, 0114 D, 0118 D, 0119 D, 0138 D, 0139 D, 0143 D, 0309 D, 0317 D, 0319 D, 0326 D, 0327 D, 0328 D, 0329 D, 0331 D, 0332 D, 0333 D, 0334 D, 0336 D, 0337 D, 0338 D, 0339 D, 0341 D, 0342 D, 0344 D, 0351 D, 0352 D, 0353 D, 0354 D, 0356 D, 0357 D, 0361 D, 0362 D, 0363 D, 0364 D, 0366 D, 0376 D, 0378 D, 0527 D, 0531 D, 0533 D, and 0555 D	September 20, 1996
0109 E, 0116 E, 0128 E, 0129 E, 0133 E, 0136 E, 0137 E, 0141 E, 0142 E, 0144 E, 0161 E, 0163 E, 0358 E, 0359 E, 0367 E, and 0386 E	April 2, 2002

LETTERS OF MAP REVISION

Panel Numbers	Effective Date
0108 D	December 20, 1996 February 4, 1999
0112 D	March 16, 1999
0113 D	September 18, 1998
0114 D	January 26, 1998 September 18, 1998 March 16, 1999
0119 D	January 8, 2003
0128 E	April 30, 2003
0136 E	April 30, 2003
0137 E	August 4, 2003
0138 D	February 29, 2000 January 8, 2003
0309 D	OCT 21 2003
0326 D	September 5, 1997
0327 D	September 10, 1997 September 25, 1997 March 27, 2003 May 14, 2003
0328 D	September 25, 1997 October 3, 1997 January 24, 2000 June 13, 2003 August 15, 2003 OCT 21 2003

LETTERS OF MAP REVISION *(continued)*

Panel Numbers	Effective Date
0329 D	September 25, 1997 October 3, 1997 December 1, 2001 March 5, 2003 September 8, 2003
0332 D	March 21, 2000
0336 D	August 8, 1997 August 26, 1997 October 24, 1997 April 15, 1999 September 27, 1999
0337 D	July 17, 1998 April 15, 1999
0339 D	June 18, 1998
0342 D	April 24, 1998
0344 D	April 11, 1997
0351 D	July 1, 1997 January 8, 2003
0356 D	September 15, 1997
0357 D	September 15, 1997
0527 D	June 18, 1998

LETTERS OF MAP AMENDMENT AND MAP REVISION BASED ON FILL

Panel Numbers	Effective Date
0114 D	April 4, 1997
0118 D	September 10, 1997

LETTERS OF MAP AMENDMENT AND MAP REVISION BASED ON FILL
(continued)

Panel Numbers	Effective Date
0119 D	January 30, 1998 June 3, 1998
0327 D	March 17, 1997 June 18, 1997 April 8, 1998 January 13, 2000 August 16, 2000
0328 D	June 25, 1998 January 24, 2000
0329 D	December 30, 1997 April 7, 1998 April 13, 1998
0332 D	January 13, 2000 March 21, 2000
0333 D	April 23, 1999
0336 D	March 17, 1997
0337 D	December 8, 1998 January 18, 2000
0339 D	December 4, 1996 January 17, 2001 February 7, 2001
0341 D	September 10, 1997
0352 D	August 10, 2001
0354 D	May 16, 1997 June 9, 1998 January 14, 1999 March 31, 1999 August 2, 2000 December 1, 2000 March 14, 2001

LETTERS OF MAP AMENDMENT AND MAP REVISION BASED ON FILL
(continued)

Panel Numbers	Effective Date
0354 D *(cont.)*	March 26, 2001
	April 12, 2000
	May 16, 2001
	August 29, 2001
0356 D	January 3, 1997
	April 14, 1997
0357 D	April 28, 1997
	February 11, 1998
	May 12, 1998
	June 15, 1998
	August 5, 1998
	October 19, 1999
	February 14, 2001
0362 D	May 20, 1998
	August 2, 2000

BEST AVAILABLE DATA LETTERS

None

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO AND BERNALILLO COUNTY, NEW MEXICO (UNICORPORATED AREAS), UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On September 20, 1996, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in Bernalillo County, New Mexico and Incorporated Areas, which includes the City of Albuquerque and the unincorporated areas of Bernalillo County, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Division has determined that modification of the elevations of the flood having a 1% chance of being equaled or exceeded in any given year (base or 100-year flood) for certain locations in this community is appropriate. The modified Base Flood Elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

Hydrologic and hydraulic analyses were performed to incorporate the construction of a storm sewer system and two unnamed detention ponds, and the channel relocation of Arroyo B-B in association with the Sunrise Ranch West project. The project has resulted in a revised delineation of the SFHA and revised BFEs for Arroyo B-B and two unnamed detention ponds. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding sources cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Arroyo B-B		
Approximately 50 feet upstream of Sunset Gardens Road	Depth 1 foot	None
Approximately 75 feet downstream of Eucariz Avenue	Depth 1 foot	None
Unnamed Ponding Area		
At the northeast corner of the intersection of 106th Street and Eucariz Avenue	None	5,246
Unnamed Ponding Area		
Southeast of the intersection of Cactus Point Drive and Duke Avenue and north of Eucariz Avenue	None	5,228

*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Division must develop criteria for floodplain management. For the community to participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium

rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

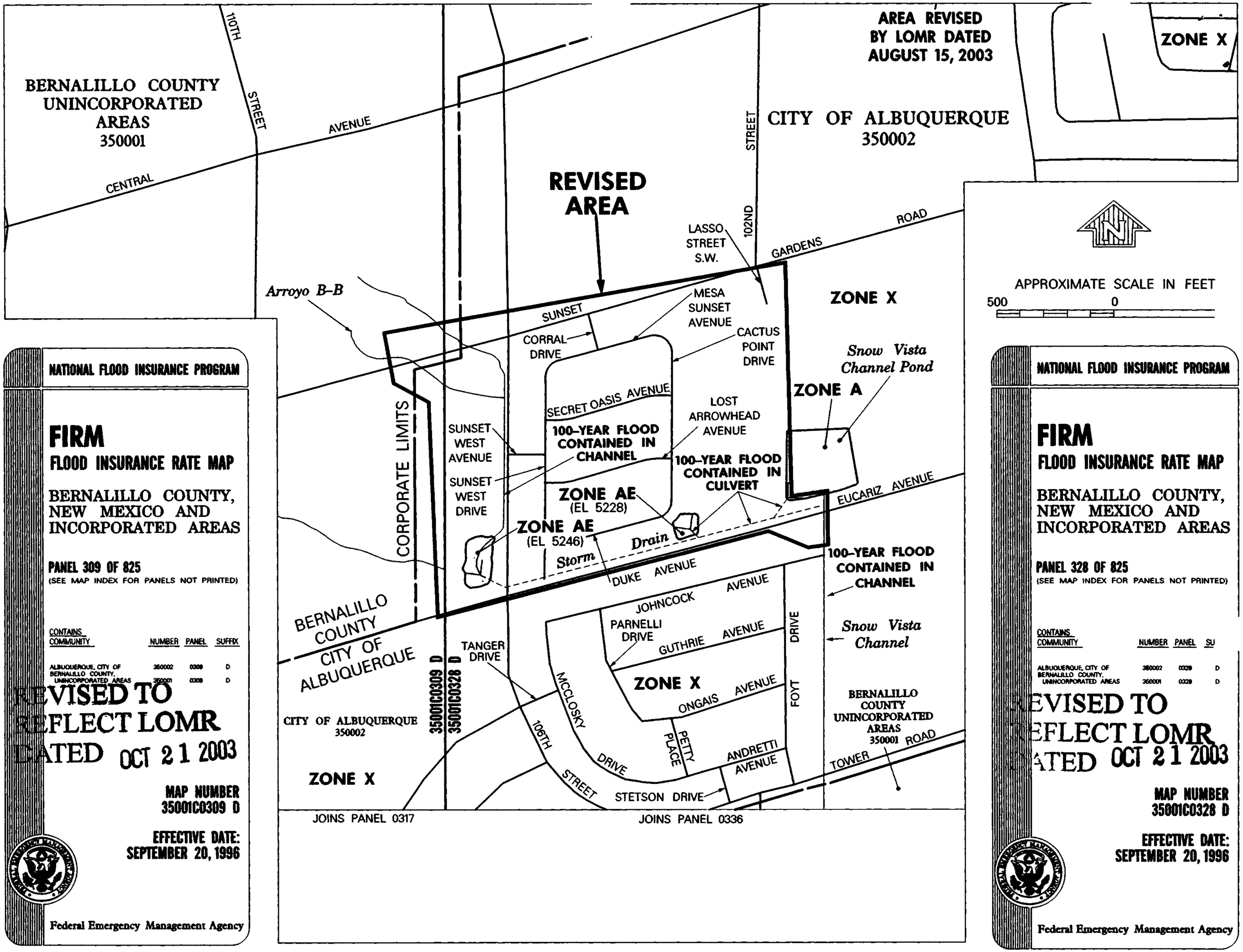
Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Division reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Division's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
Office of the Mayor
P.O. Box 1293
Albuquerque, NM 87103

or

Mr. Tom Rutherford
Chair, Board of County Commissioners
Bernalillo County
One Civic Plaza N.W.
Albuquerque, NM 87102



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 309 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0309	D
BERNALILLO COUNTY, UNINCORPORATED AREAS	350001	0309	D

REVISED TO REFLECT LOMR DATED OCT 21 2003

MAP NUMBER 35001C0309 D

EFFECTIVE DATE: SEPTEMBER 20, 1996

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 328 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS COMMUNITY	NUMBER	PANEL	SU
ALBUQUERQUE, CITY OF	350002	0328	D
BERNALILLO COUNTY, UNINCORPORATED AREAS	350001	0328	D

REVISED TO REFLECT LOMR DATED OCT 21 2003

MAP NUMBER 35001C0328 D

EFFECTIVE DATE: SEPTEMBER 20, 1996

Federal Emergency Management Agency

TABLE 6 – SUMMARY OF STILLWATER ELEVATIONS

FLOODING SOURCE AND LOCATION	PEAK ELEVATION (FEET NGVD) 10-YEAR	50-YEAR	100-YEAR	500-YEAR
Pond 1	5,391.4	5,393.7	5,394.6	5,395.3
Pond 2	5,470.6	5,472.3	5,472.6	5,473.0
Pond 3	5,526.3	5,528.9	5,530.0	5,530.4
Pond 4	5,572.1	5,572.8	5,573.1	5,573.6
North Domingo Baca Dam	5,737.5	5,745.2	5,748.0	5,750.5
South Domingo Baca Dam	5,898.0	5,908.5	5,912.6	5,918.6
Revised to Reflect LOMR dated June 13, 2003				
Approximately 600 feet northwest of Interstate 40				
Pond D	*	*	5,199.2	*
Pond E	*	*	5,207.1	*
Pond F	*	*	5,211.1	*
Pond G	*	*	5,218.2	*
Pond J	*	*	5,223.2	*
Pond K	*	*	5,230.3	*
Unnamed Pond Area bounded by Sunset Gardens Road to the north, 106th Street to the east, and Eucariz Avenue to the south	*	*	5,245.9	*
Unnamed Pond Area bounded by Duke Avenue to the north and Eucariz Avenue to the south	*	*	5,228.1	*

*Data not available

Revised Area

REVISED TO REFLECT LOMR DATED OCT 21 2003

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 22, 2003

Nick Ganch
PBS&J
12101 Indian Creek Court
Beltsville, Maryland 20705

RE: Request for a Letter of Map Revision for Sunrise Ranch West Subdivision Unit 1 and Unit 2 - FEMA Case Number 03-06-1742P

City of Albuquerque, New Mexico, Community No. 350002, FIRM Panel 35001C0328D Effective Date September 20, 1996

Dear Mr. Ganch:

Ms. Diane Hoelzer has asked me to address items 1 and 2 from your June 18, 2003 letter.

1. The City has drainage responsibility for 106th Street, the storm drain in 106th Street, the asphalt swale to the existing detention pond, and the existing detention pond at 106th Street and Eucariz Road. The City maintenance crews will maintain these hydraulic structures.
2. The only property that will be adversely impacted will be the public Right-of-Way and drainage easement. The City understands these impacts and is willing to accept them.

If you have any questions, you can contact me at (505) 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

C: Diane Hoelzer, Mark Goodwin & Associates
Lynn Mazur, AMAFCA

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NATIONAL FLOOD INSURANCE PROGRAM
FEMA MAP COORDINATION CONTRACTOR

JUN 18 2003

Carlos A. Montoya
City Floodplain Administrator
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

IN REPLY REFER TO:
Case No.: 03-06-1742P
Community: City of Albuquerque, Bernalillo County, New Mexico
Community No.: 350002

316-ACK.FRQ

Dear Mr. Montoya:

This responds to your request, dated May 20, 2003, that the Federal Emergency Management Agency (FEMA) issue a revision to the Flood Insurance Rate Map (FIRM) for the above-referenced community. Pertinent information about the request is listed below.

Identifier:	Sunrise Ranch West
Flooding Source:	Arroyo B-B
FIRM Panel Affected:	Bernalillo County, New Mexico and Incorporated Areas FIRM number 35001C0328 D, dated September 20, 1998

We have completed an inventory of the items that you submitted. The items identified below are required before we can begin a detailed review of your request.

1. To ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained, FEMA requires a maintenance agreement for channel, culvert, and detention facility improvement projects. Please submit a maintenance agreement for this project in accordance with Subparagraph 65.6(a)(12) of the National Flood Insurance Program (NFIP) regulations. Ensure that the maintenance agreement states who will be responsible for the maintenance and that the community will assume the maintenance duties if need be.

2. Please submit documentation of individual legal notices that were sent to property owners who are adversely impacted by any increases in and/or shifting of the 1% annual chance (100-year) floodplain and/or any increases in the 1% annual chance water surface elevations for Arroyo B-B and associated detention facilities. Legal notice may take the form of certified mailing receipts or certification that all property owners have been notified, with an accompanying mailing list and copy of letter sent. Examples of individual notices can be found on Pages 12 through 17 of the MT-2 instructions, which can be accessed at http://www.fema.gov/mit/tsd/mt2_inst.pdf.

   a. If you submit notification and acceptance from the adversely impacted property owners, FEMA can issue a Letter of Map Revision (LOMR) effective the date of issuance.

   b. If you submit notification of, but not acceptance by, the adversely impacted property owners, FEMA may issue a LOMR effective three to six months after the date of issuance.

12101 Indian Creek Court, Beltsville, MD 20705 • Phone: 1-800-697-7275 • Fax: 301-210-5157

Please send the required data to us at the address shown at the bottom of the first page. If all required items are not submitted within 90 days of the date of this letter, FEMA will treat any subsequent request as an original submittal, and it will be subject to all submittal/payment procedures as outlined in Paragraph 72.7(a) of the NFIP regulations (44 CFR Parts 59-78).

If you are unable to meet the 90-day deadline for submittal of required items and would like FEMA to continue processing your request, you must request an extension of the deadline. This request must be submitted to us in writing and must provide (1) the reason why the data cannot be submitted within the requested timeframe and (2) a new date for the submittal of the data. FEMA receives a very large volume of requests and cannot maintain inactive requests for an indefinite period of time. Therefore, the fees will be forfeited for any request for which neither the requested data nor a written extension request is received within 90 days.

When you write to us about your request, please include the case number referenced above in your letter. If you have general questions about your case, FEMA policy, or the NFIP, please call FEMA's toll free map assistance line at 1-877-FEMA MAP (1-877-336-2627). If you have specific questions concerning your request, please contact the Engineer assigned to your case, Mr. Nick Ganch, by phone at 1-800-697-7275 Ext. 274, or by e-mail at naganch@pbsj.com.

Sincerely,

Joseph A. Martinenza, Jr.
Program Manager, Region VI

Enclosure

cc: Diane Hoelzer, P.E., D. Mark Goodwin & Associates, P.A., Consulting Engineers

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 20, 2003

Joseph A. Martinenza
PBS&J
12101 Indian Creek Court
Beltsville, Maryland 20705

RE: Request for a Letter of Map Revision for Sunrise Ranch West Subdivision Unit 1 and Unit 2

City of Albuquerque, New Mexico, Community No. 350002, FIRM Panel 35001C0328D Effective Date September 20, 1996

Dear Mr. Martinenza,

The purpose of this submittal is to convey the documents in order to request a Letter of Map Revision based on storm drain and detention ponds construction to revise the 100-year floodplain.

Enclosed with this letter are the subdivision construction plans, and two check in the amount of $3,800.00.

As the City Floodplain Administrator, I have reviewed the response provided with this submittal. Our Community would greatly appreciate your prompt response and approval for this Letter of Map Revision.

If you have any questions, you can contact me at (505) 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

C: Bill Blanton, Federal Emergency Management Agency Headquarters
Jack Quarles, FEMA Region VI
Diane Hoelzer, Mark Goodwin & Associates
Lynn Mazur, AMAFCA
Brian Kent, Bernalillo County

D. Mark Goodwin & Associates, P.A.
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200 FAX 797-9539
e-mail: dmg@swcp.com

March 31, 2003

Mr. Carlos Montoya, PE
Floodplain Administrator
Plaza del Sol
Hydrology Dept.
P.O. Box 1293
Albuquerque, NM 87103

Re: Sunrise Ranch West LOMR
Engineer's stamp 3-31-03 (L8/D14)

Dear Mr. Montoya,

Accompanying this letter is the LOMR request to FEMA for the Sunrise Ranch West subdivision.

If you have any questions or need additional information, please call me.

Sincerely,

MARK GOODWIN AND ASSOCIATES, P.A.

Diane Hoelzer, P.E.

file: sunrise.wst/dr_5ltr wpd

RECEIVED
APR 04 2003
HYDROLOGY SECTION

Table of Contents

I. LOMR Request Letter

II. Proposed Revised FEMA FIRM Map

III. Project Overview

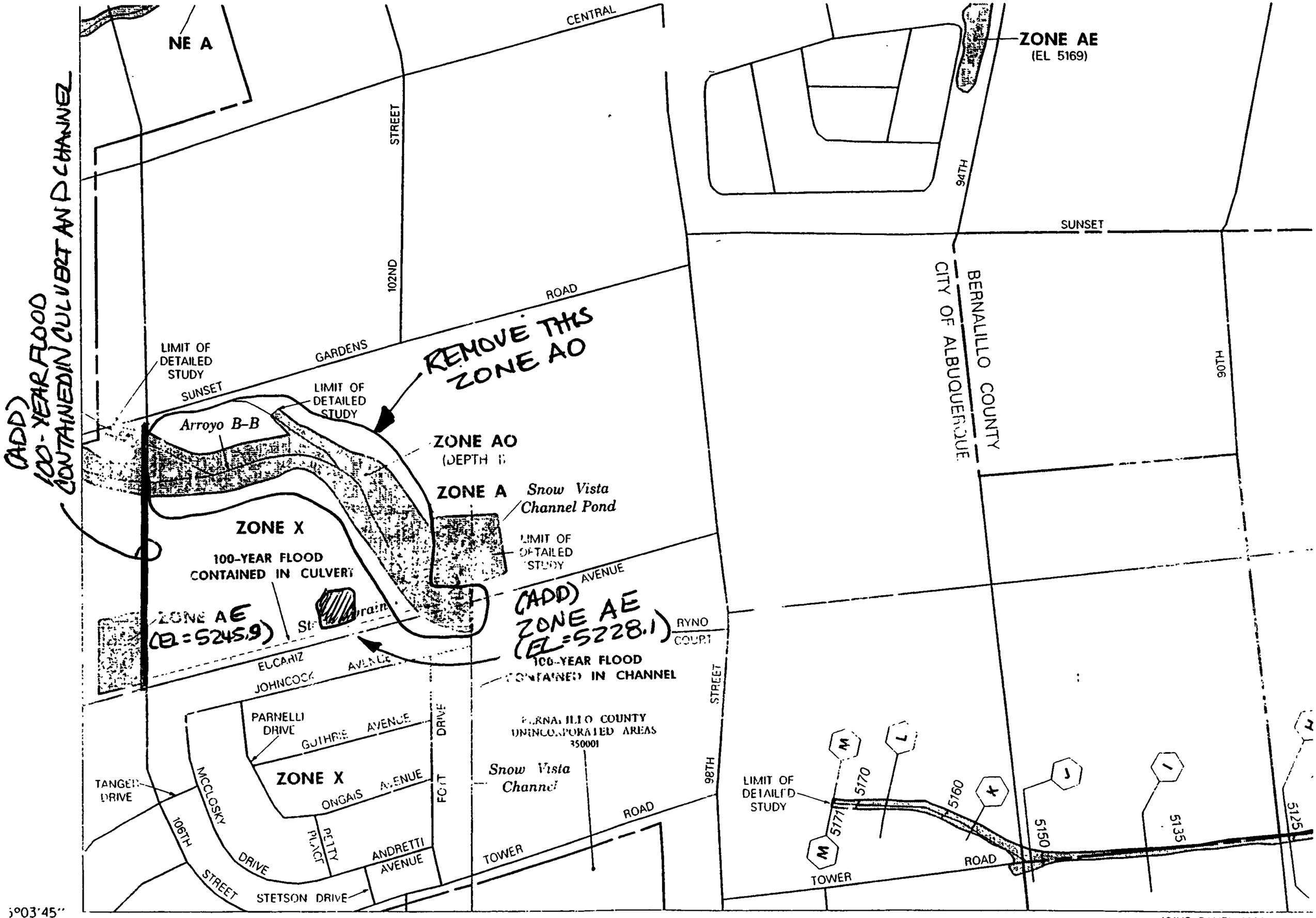
IV. MT-2 Form 1 - Overview and Concurrence Form

V. MT-2 Form 2 - Riverine Hydrology & Hydraulics Form

  A. Form 2 - Attached explanations

VI. As-built drawings (11"x17")

Pocket: Revised FEMA Floodplain Boundary



FIRM PANEL 328 OF 825
CITY OF ALBUQUERQUE, BERNALILLO COUNTY
350002 0328 D, SEPT. 20, 1996

Sunrise Ranch West Project Overview

The Arroyo B-B Floodplain has been removed from the project site east of 106th street through the construction of the Sunrise Ranch West infrastructure improvements. In accordance withe the plans the floodplain runoff is now being intercepted and diverted in 106 th street through a combination of an asphalt swale and an 8' diameter drop inlet manhole and 60" storm sewer. The asphalt swale discharges to the existing 106th street pond. The existing 30" CMP outfall structure from this pond was lowered to the revised elevation as shown in the accompanying construction as-builts.

At the Eucariz corridor combined flows from the 106th offsite pond and the 106th street 60" storm sewer are conveyed east to the existing Snow Vista Sedimentation Pond. Onsite flows from the Sunrise Ranch West Tract A Pond discharge into the Eucariz corridor 60" storm sewer approximately half way between 106th street and the Snow Vista Sedimentation Pond. The outfall structure from the Tract A pond consists of an 18" RCP storm sewer and headwall which connects to the 60" storm sewer. A back flow preventer was installed in this pipe to prevent any backflow from the Eucariz 60" storm sewer into the onsite pond.

DIANE HOELZER
NEW MEXICO
11967
REGISTERED PROFESSIONAL ENGINEER

3-31-03

FEDERAL EMERGENCY MANAGEMENT AGENCY

OVERVIEW & CONCURRENCE FORM

O.M.B No. 3067-0148
Expires September 30, 2005

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to· Information Collections Management, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (3067-0148). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program **Please do not send your completed survey to the above address.**

A. REQUESTED RESPONSE FROM FEMA

This request is for a (check one):

☐ CLOMR: A letter from FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60, 65 & 72).

☒ LOMR· A letter from FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See Parts 60 & 65 of the NFIP Regulations)

B. OVERVIEW

1. The NFIP map panel(s) affected for all impacted communities is (are)

Community No	Community Name	State	Map No	Panel No	Effective Date
Ex· 480301	City of Katy	TX	480301	0005D	02/08/83
480287	Harris County	TX	48201C	0220G	09/28/90
50001	Bernalillo County	NM	35001C	0328D	09/20/96
0002	Albuquerque, City of	NM	35001C	0328D	09/20/96

2 Flooding Source: Arroyo B-B

3. Project Name/Identifier· Sunrise Ranch West

4 FEMA zone designations affected. AO (choices: A, AH, AO, A1-A30, A99, AE, AR, V, V1-V30, VE, B, C, D, X) (Depth 1.0')

5. Basis for Request and Type of Revision

a The basis for this revision request is (check all that apply)

☒ Physical Change ☐ Improved Methodology/Data

☐ Regulatory Floodway Revision ☐ Other (Attach Description)

Note A photograph and narrative description of the area of concern is not required, but is very helpful during review

b. The area of revision encompasses the following types of flooding and structures (check all that apply)

Types of Flooding ☒ Riverine ☐ Coastal ☒ Shallow Flooding (e g., Zones AO and AH)

☐ Alluvial fan ☐ Lakes ☐ Other (Attach Description)

Structures· ☒ Channelization ☐ Levee/Floodwall ☐ Bridge/Culvert

☐ Dam ☐ Fill ☒ Other, Attach Description
Storm Sewer

C. REVIEW FEE

Has the review fee for the appropriate request category been included? ☒ Yes Fee amount. $ 3400.00

☐ No, Attach Explanation

Please see the FEMA Web site at http //www.fema.gov/mit/tsd/frm_fees htm **for Fee Amounts and Exemptions.**

D. SIGNATURE

All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Name· Diane Hoelzer	Company· Mark Goodwin & Associates, PA	
Mailing Address P.O. Box 90606 Albuquerque, NM 87199	Daytime Telephone No . (505) 828-2200	Fax No (505) 797-9539
	E-Mail Address· dmg@swcp com	
Signature of Requester (required): Diane Hoelzer		Date: 3/31/03

As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision (LOMR) or conditional LOMR request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirement that no fill be placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a conditional LOMR, will be obtained. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by FEMA, all analyses and documentation used to make this determination.

Community Official's Name and Title: Fred Aguirre, City Engineer Carlos A Montoya Floodplain Adm		Telephone No · (505) ~~924-3999~~ 924-3982
ommunity Name. City of Albuquerque	Community Official's Signature (required). Carlos A Montoya	Date· 5-20-03

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001

Certifier's Name. Diane Hoelzer, PE	License No . 11967	Expiration Date 12/31/03
Company Name· Mark Goodwin & Associates, PA	Telephone No.. (505) 828-2200	Fax No : (505) 797-9539
Signature: Diane Hoelzer		Date: 3/31/03

Ensure the forms that are appropriate to your revision request are included in your submittal.

Form Name and (Number)	Required if ...
☒ Riverine Hydrology and Hydraulics Form (Form 2)	New or revised discharges or water-surface elevations
☒ Riverine Structures Form (Form 3)	Channel is modified, addition/revision of bridge/culverts, addition/revision of levee/floodwall, addition/revision of dam
☐ Coastal Analysis Form (Form 4)	New or revised coastal elevations
☐ Coastal Structures Form (Form 5)	Addition/revision of coastal structure
☐ Alluvial Fan Flooding Form (Form 6)	Flood control measures on alluvial fans

Seal (Optional)

FEDERAL EMERGENCY MANAGEMENT AGENCY

RIVERINE HYDROLOGY & HYDRAULICS FORM

O.M.B No. 3067-0148
Expires September 30, 2005

PAPERWORK REDUCTION ACT

Public reporting burden for this form is estimated to average 3 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (3067-0148) Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

Flooding Source: ARROYO B-B
Note: Fill out one form for each flooding source studied

A. HYDROLOGY

1. Reason for New Hydrologic Analysis (check all that apply)

☒ Not revised (skip to section 2) ☐ No existing analysis ☐ Improved data
☐ Alternative methodology ☐ Proposed Conditions (CLOMR) ☐ Changed physical condition of watershed

2 Comparison of Representative 1%-Annual-Chance Discharges

Location	Drainage Area (Sq. Mi)	FIS (cfs)	Revised (cfs)

3 Methodology for New Hydrologic Analysis (check all that apply)

☐ Statistical Analysis of Gage Records ☐ Precipitation/Runoff Model [TR-20, HEC-1, HEC-HMS etc]
☐ Regional Regression Equations ☐ Other (please attach description)

Please enclose all relevant models in digital format, maps, computations (including computation of parameters) and documentation to support the new analysis. The document, "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by FEMA. This document can be found at: http.//www fema gov/mit/tsd/en_modl htm.

4. Review/Approval of Analysis

If your community requires a regional, state, or federal agency to review the hydrologic analysis, please attach evidence of approval/review.

5 Impacts of Sediment Transport on Hydrology

Was sediment transport considered? ☐ Yes ☐ No If yes, then fill out Section F (Sediment Transport) of Form 3. If No, then attach your explanation for why sediment transport was not considered.

B. HYDRAULICS

1. Reach to be Revised (SEE CLOMR CASE NO. 02-06-600R, SUNRISE RANCH WEST)

	Description	Cross Section	Water-Surface Elevations (ft)	
			Effective	Proposed/Revised
Downstream Limit				
Upstream Limit				

2. Hydraulic Method Used

Hydraulic Analysis [HEC-2 , HEC-RAS, Other (Attach description)]

B. HYDRAULICS (CONTINUED)

3. Pre-Submittal Review of Hydraulic Models (REFER TO CLOMR)

FEMA has developed two review programs, CHECK-2 and CHECK-RAS, to aid in the review of HEC-2 and HEC-RAS hydraulic models, respectively. These review programs verify that the hydraulic estimates and assumptions in the model data are in accordance with NFIP requirements, and that the data are comparable with the assumptions and limitations of HEC-2/HEC-RAS. CHECK-2 and CHECK-RAS identify areas of potential error or concern. These tools do not replace engineering judgment CHECK-2 and CHECK-RAS can be downloaded from http //www fema.gov/mit/tsd/frm_soft.htm. We recommend that you review your HEC-2 and HEC-RAS models with CHECK-2 and CHECK-RAS. If you disagree with a message, please attach an explanation of why the message is not valid in this case. Review of your submittal and resolution of valid modeling discrepancies will result in reduced review time

HEC-2/HEC-RAS models reviewed with CHECK-2/CHECK-RAS? ☐ Yes ☐ No

4. Models Submitted (REFER TO CLOMR)

Duplicate Effective Model*	Natural File Name:	Floodway File Name:
Corrected Effective Model*	Natural File Name:	Floodway File Name:
Existing or Pre-Project Conditions Model	Natural File Name	Floodway File Name:
Revised or Post-Project Conditions Model	Natural File Name:	Floodway File Name:
Other - (attach description)	Natural File Name:	Floodway File Name

*Not required for revisions to approximate 1%-annual-chance floodplains (Zone A) – for details, refer to the corresponding section of the instructions.

The document "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by FEMA This document can be found at. http://www fema.gov/mit/tsd/en_modl htm.

C. MAPPING REQUIREMENTS (SEE ATTACHED EXPLANATION)

A **certified topographic map** must be submitted showing the following information (where applicable): the boundaries of the effective, existing, and proposed conditions 1%-annual-chance floodplain (for approximate Zone A revisions) or the boundaries of the 1%- and 0.2%-annual-chance floodplains and regulatory floodway (for detailed Zone AE, AO, and AH revisions); location and alignment of all cross sections with stationing control indicated; stream, road, and other alignments (e.g., dams, levees, etc.), current community easements and boundaries; boundaries of the requester's property, certification of a registered professional engineer registered in the subject State, location and description of reference marks; and the referenced vertical datum (NGVD, NAVD, etc.).

Note that the boundaries of the existing or proposed conditions floodplains and regulatory floodway to be shown on the revised FIRM and/or FBFM must tie-in with the effective floodplain and regulatory floodway boundaries. Please attach **a copy of the effective FIRM and/or FBFM,** annotated .o show the boundaries of the revised 1%- and 0.2%-annual-chance floodplains and regulatory floodway that tie-in with the boundaries of the effective 1%- and 0.2%-annual-chance floodplain and regulatory floodway at the upstream and downstream limits of the area of revision.

D. COMMON REGULATORY REQUIREMENTS

1 For CLOMR requests, do Base Flood Elevations (BFEs) increase? (Not Applicable) ☐ Yes ☐ No

For CLOMR requests, if either of the following is true, please submit evidence of compliance with Section 65.12 of the NFIP regulations:

- The proposed project encroaches upon a regulatory floodway and would result in increases above 0.00 foot
- The proposed project encroaches upon a SFHA with BFEs established and would result in increases above 1 00 foot.

2 Does the request involve the placement or proposed placement of fill? ☒ Yes ☐ No

If Yes, the community must be able to certify that the area to be removed from the special flood hazard area, to include any structures or proposed structures, meets all of the standards of the local floodplain ordinances, and is reasonably safe from flooding in accordance with the NFIP regulations set forth at 44 CFR 60 3(a)(3), 65.5(a)(4), and 65.6(a)(14) Please see the MT-2 instructions for more information

3 For LOMR requests, is the regulatory floodway being revised? (Not Applicable) ☐ Yes ☐ No

If Yes, attach evidence of regulatory floodway revision notification. As per Paragraph 65.7(b)(1) of the NFIP Regulations, notification is required for requests involving revisions to the regulatory floodway. (Not required for revisions to approximate 1%-annual-chance floodplains [studied Zone A designation] unless a regulatory floodway is being added. Elements and examples of regulatory floodway revision notification can be found in the MT-2 Form 2 Instructions.)

4 For LOMR requests, does this request require property owner notification and acceptance of BFE increases? ☐ Yes ☒ No

If Yes, please attach proof of property owner notification and acceptance (if available). Elements of and examples of property owner notification can be found in the MT-2 Form 2 Instructions (SEE ATTACHED EXPLANATION)

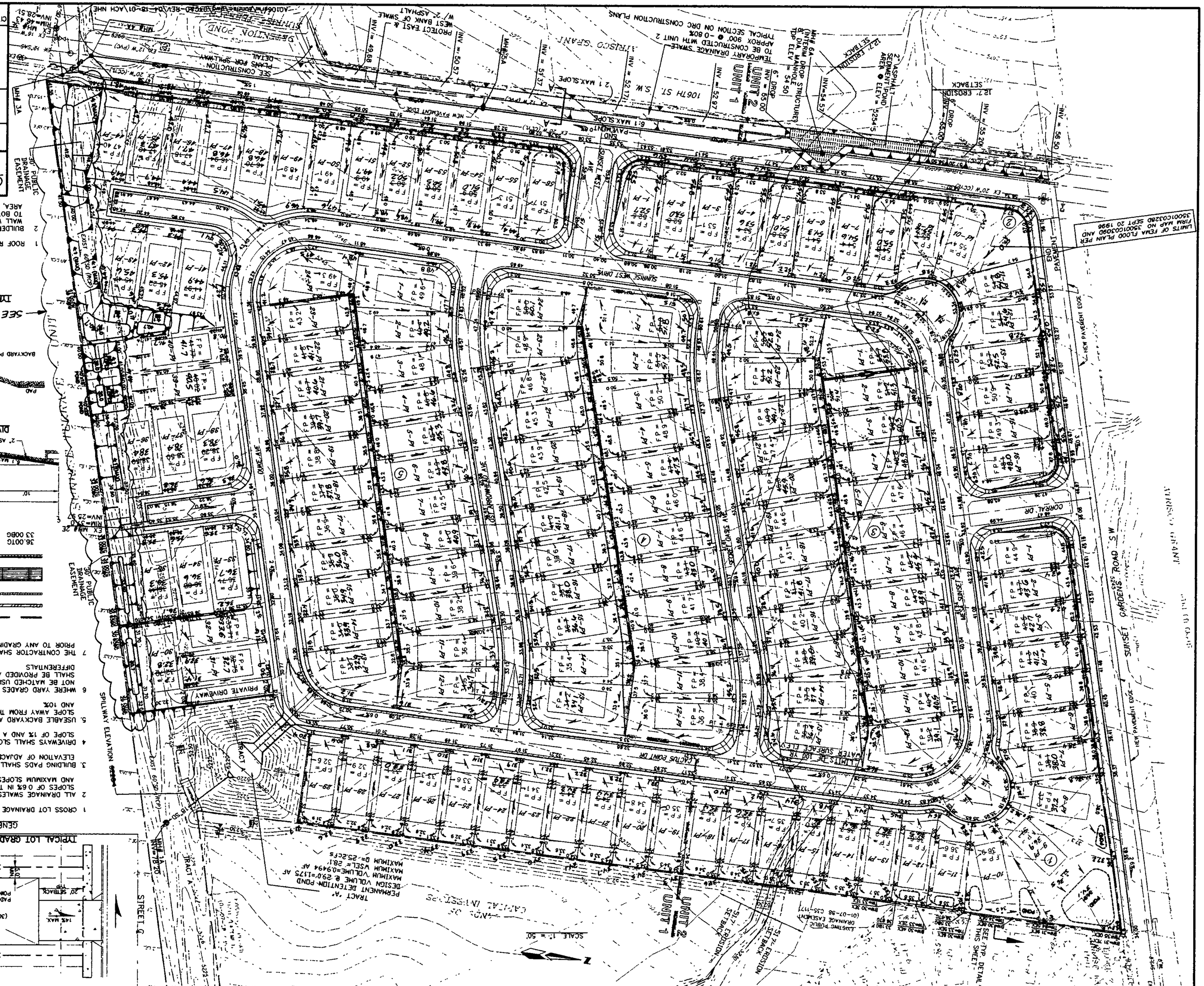
MT-2 Form 2 (Attached explanations)

C. Mapping Requirements - In addition to the certified grading and drainage plan I am submitting a 24"x 36" 'Revised FEMA Floodplain Plan' that highlights the floodplain diversion around the project site.

D.4. There are no BFE increases as a result of these infrastructure improvements. With this LOMR request the floodplain runoff is being diverted around the entire Sunrise Ranch West subdivision. The flows at 106th street are being accepted into the asphalt swale and storm sewer at the property boundary with no upstream backwater effect.

MAINTENANCE RESPONSIBILITY

The onsite Tract A pond, the offsite 106th street pond and storm sewer and asphalt swale will be the maintenance responsibility of the City of Albuquerque and will follow their standard annual maintenance cycle.



GENERAL NOTES

1. CROSS LOT DRAINAGE WILL NOT BE PERMITTED
2. ALL DRAINAGE SWALES AND YARD AREAS SHALL HAVE MINIMUM SLOPES OF 0.6% IN THE DIRECTION INDICATED BY THE FLOW ARROWS, AND MAXIMUM SLOPES OF 3 HORZ TO 1 VERT
3. BUILDING PADS SHALL BE SET AT LEAST 0.2' ABOVE THE HIGHEST ELEVATION OF ADJACENT SWALES
4. DRIVEWAYS SHALL SLOPE TOWARDS THE STREETS AT A MINIMUM SLOPE OF 1% AND A MAXIMUM SLOPE OF 14%
5. USEABLE BACKYARD AREAS SHALL BE AT LEAST 10' DEEP, AND SHALL SLOPE AWAY FROM THE BUILDING PADS AT A GRADE BETWEEN 1% AND 10%
6. WHERE YARD GRADES AT ADJACENT LOTS AT PROPERTY LINES CAN NOT BE MATCHED USING THE ABOVE CRITERIA, RETAINING WALLS SHALL BE PROVIDED AS NECESSARY TO ACCOMMODATE THE GRADE DIFFERENTIALS
7. THE CONTRACTOR SHALL OBTAIN A TOPSOIL DISTURBANCE PERMIT PRIOR TO ANY GRADING OPERATIONS.

LEGEND

- UNIT BOUNDARY
- RETAINING WALL
- GARDEN WALL
- BACKYARD SLOPE (3:1 TYP U.N.O)
- STANDARD CURB & GUTTER
- 36.00TG TOP GRADE
- 33.00BG BOTTOM GRADE

DIVERSION CHANNEL A-A

NO SCALE

TYPICAL LOT GRADING (unless shown otherwise)

NO SCALE

BUILDING PAD (30' MIN x 65' LONG MAX)
PAD ELEV. 0.2' MIN. ABOVE HIGH POINT OF DRAINAGE SWALE

SURVEY INFORMATION

FIELD NOTES BY	DATE
ALDRITCH LAND SURVEY	
P.O. BOX 3070	
ALBUQUERQUE, NM	
87190-0701	
(505) 804-1990	

BENCH MARKS

ACS MONUMENT "9-J8"

THE STATION IS 49.2' EAST OF CENTERLINE OF 98TH ST. AND IS 0.13 MILES NORTH R/NO CT. S.W

X = 353055.34, Y = 1480156.08, G-G = 0.99967936

ELEV = 5187.036(SLD 1929) (ELEVATION REVISED 1995)

AS BUILT INFORMATION

CONTRACTOR
WORK STARTED BY — DATE
WORK ACCEPTED BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO

ENGINEER'S SEAL

SEE SHT 2 FOR CERT.

NO	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY HC-A — DATE JULY -01
DRAWN BY HC-A — DATE JULY -01
CHECKED BY DLH — DATE JULY -01

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SUNRISE RANCH WEST

GRADING & DRAINAGE PLAN

DESIGN REVIEW COMMITTEE — No /DAY/YR
CITY ENGINEER APPROVAL — No /DAY/YR

LAST DESIGN UPDATE

CITY PROJECT No 675781 — ZONE MAP NO L-8 — SHEET 1 OF 2

MARK GOODMAN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

DRAINAGE NOTES

1. ROOF RUNOFF TO FRONT YARD
2. BUILDER MAY REQUIRE BACK YARD RETAINING WALL WITHIN THE 5:1 MAX. SLOPE AREA DOWN TO BOTTOM OF POND TO PROVIDE USABLE BACKYARD AREA, DEPENDING ON MODEL PLACED ON LOT.

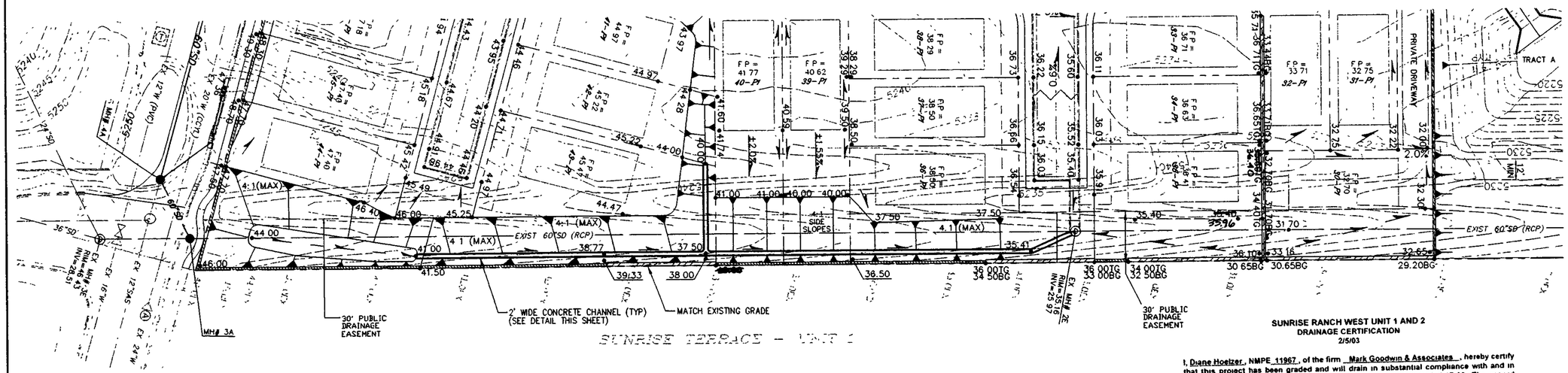
SEE SHEET 2 of 2 FOR REVISIONS

TYP. SECTION @ COMMON BOUNDARY WITH SUNRISE RANCH, UNIT 2 LOTS 9, 10, 11, 12 ONLY.
NO SCALE

BACKYARD POND AREA — EXIST CHAIN LINK WALL SUNRISE RANCH UNIT 2

F:\ADCadd\AUTOCAD\SUNRISE\SUNRISE.dwg\HC-GRADING-REV\01-15-01\ACH NHE

NOTES



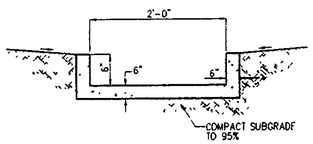
SUNRISE RANCH WEST UNIT 1 AND 2
DRAINAGE CERTIFICATION
2/5/03

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 4-17-02. The record information edited onto the original design document has been obtained by Aldrich Land Surveying, NMPS 7719, of the firm Tim Aldrich. I further certify that I have personally visited the project site on 1-16-03 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Release of Financial Guarantees.

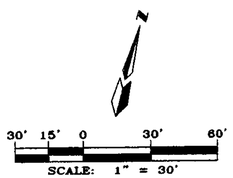
The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Diane L. Hoelzer, PE — 2-5-03 Date

DIANE HOELZER — NEW MEXICO — 11967 — REGISTERED PROFESSIONAL ENGINEER



CONCRETE SWALE SECTION
NTS



A00jobs\A0106srw\SUNRISE\DWG\A0106sdtl dwg\06-19-02\DER

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTED BY — DATE
FIELD VERIFIED BY — DATE
CERTIFICATION BY — DATE
CORRECTED BY — DATE
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SURVEY INFORMATION
FIELD NOTES

NO	BY	DATE
	ALDRITCH LAND SURVEY	
	P.O. BOX 30701	
	ALBUQUERQUE, NM	
	87190-0701	
	(505) 884-1990	

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY JMM DATE JUNE-02
DRAWN BY DER DATE JUNE-02
CHECKED BY DLH DATE JUNE-02

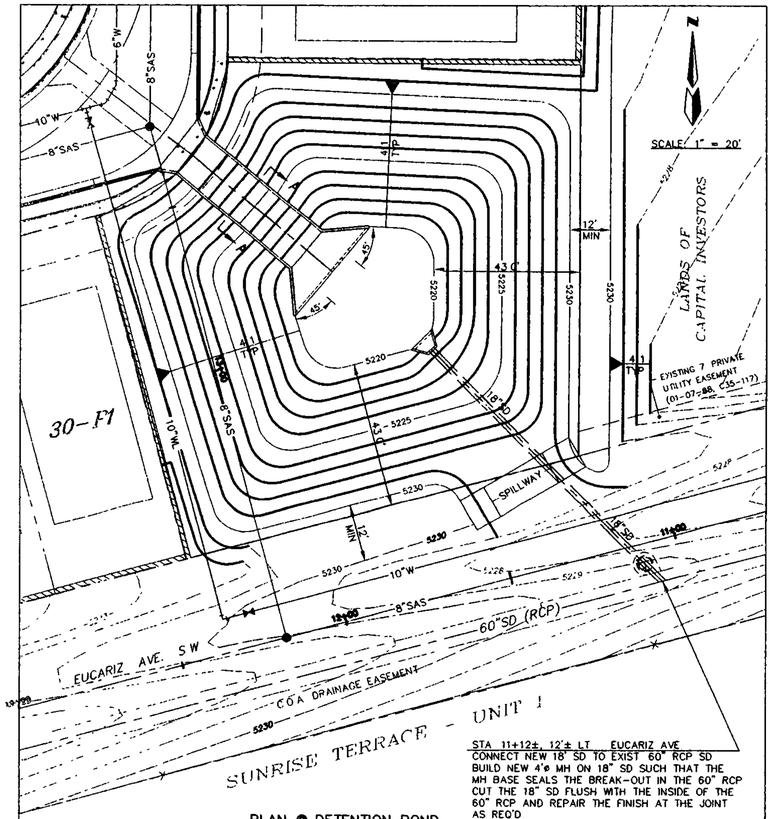
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

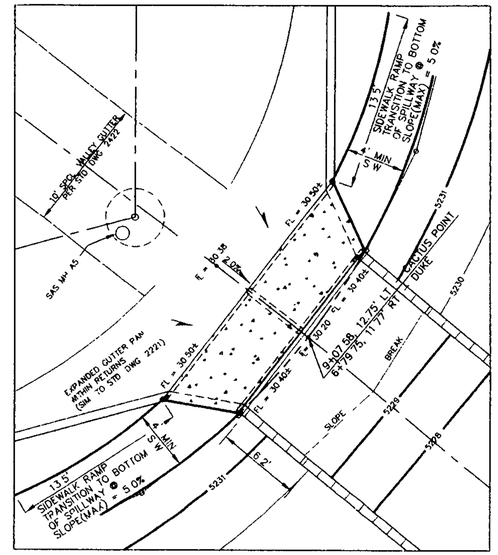
TITLE
SUNRISE RANCH WEST SOUTH BOUNDARY SWALE DETAIL

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR	MO./DAY/YR

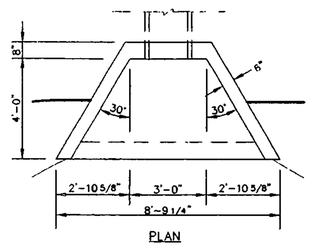
CITY PROJECT NO 675781 — ZONE MAP NO L-8 — SHEET 2 OF 2



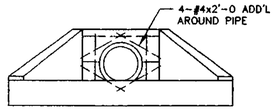
PLAN @ DETENTION POND
1" = 20'-0"



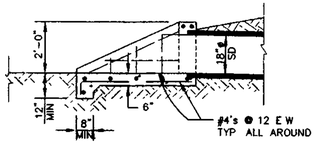
PLAN DETAIL @ SIDEWALK/SPILLWAY
1" = 5'-0"



PLAN

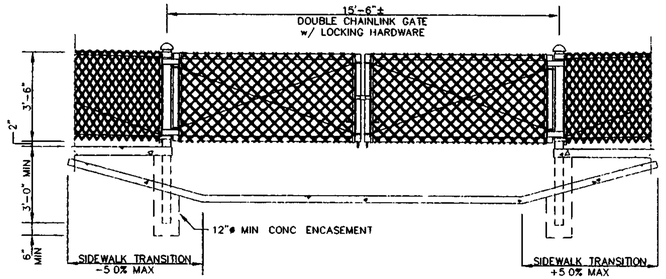


FRONT ELEVATION

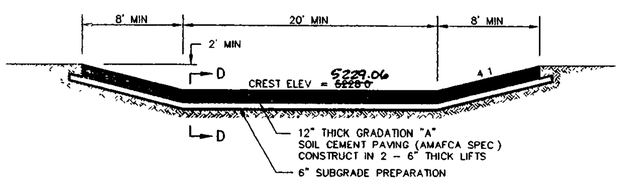


SECTION

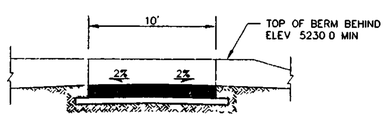
OUTLET HEADWALL
3/8" = 1'-0"



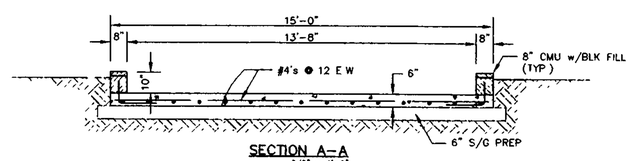
ELEVATION @ CHAIN LINK GATE
3/8" = 1'-0"



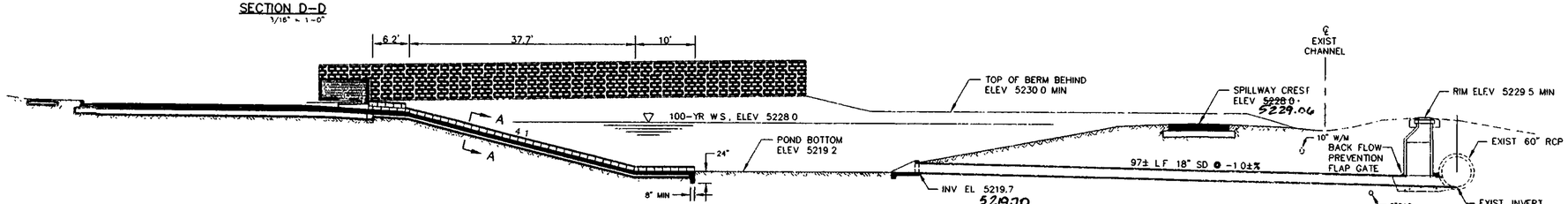
SECTION @ SPILLWAY
3/16" = 1'-0"



SECTION D-D
1/16" = 1'-0"



SECTION A-A
3/8" = 1'-0"



SECTION @ DRAINAGE WAY & OUTLET PIPE C'S
1" = 10'-0"

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Construction Contracting & Management (CCM), and by the surveyor, Aldrich Land Surveying and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan

Diane Hoelzer, PE — NMPE 11967

NOTE:
ALL EXPOSED EARTH WITHIN THE DETENTION POND AREA AND AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS IN THE EUCARIZ AVE. DRAINAGE EASEMENT SHALL BE GRADED AND SEEDED IN ACCORDANCE WITH SECTION 1012, "NATIVE GRASS SEEDING," OF THE STANDARD SPECIFICATIONS

AS BUILT INFORMATION
CONTRACTOR: CCM, Inc.
STAMPED BY: ALS DATE 9/02
INSPECTOR'S STAMPED BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS MONUMENT "9-L9"
THE STATION IS 49.2' EAST OF CENTERLINE OF 98TH ST.
AND IS 0.13 MILES NORTH RYNO CT. S.W.
X = 35.5055.34, Y = 1480156.08, G-G = 0.99967636
ELEV = 5187.036(SLD 1929) (ELEVATION REVISED 1995)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	ALDRICH LAND SURVEY	
	P.O. BOX 30701	
	ALBUQUERQUE, NM	
	87190-0701	
	(505) 884-1990	

ENGINEER'S SEAL

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A — DATE JULY-01
DRAWN BY HC-A — DATE JULY-01
CHECKED BY DLH — DATE JULY-01

dmg
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

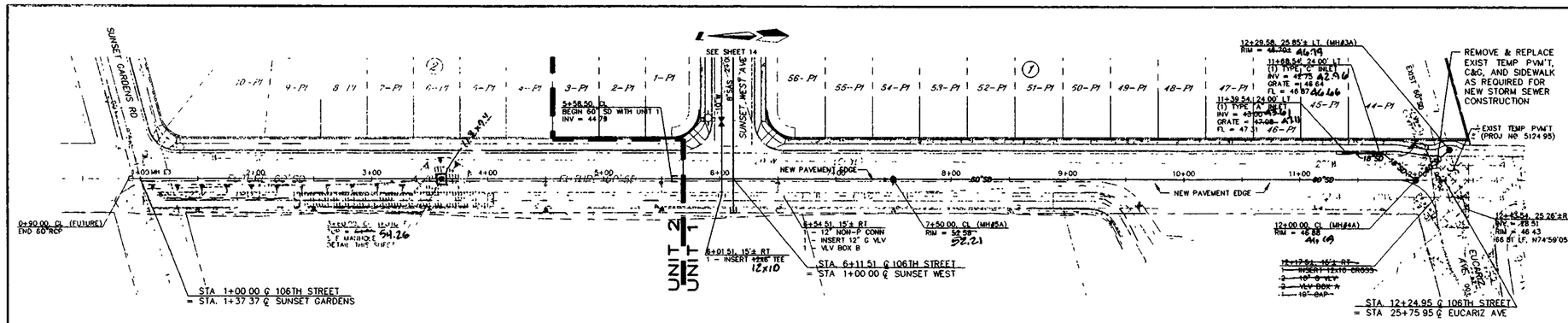
SUNRISE RANCH WEST - UNIT 1
DETENTION POND
PLAN & DETAILS

DESIGN REVIEW COMMITTEE — ENGINEER APPROVAL — LAST DESIGN UPDATE — Mo/DAY/YR — Mo/DAY/YR

CITY PROJECT No	ZONE MAP NO	SHEET	OF
675781	L-8	17	19

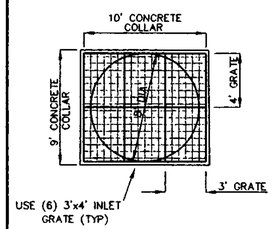
A0106SRW/SUNRISE/DWG/UNIT1/01-21-02/ACH

C:\Land Projects P2\SUNRISE\dwg\SPOND-1.dwg 07/06/2001 04:25:52 AM MDT



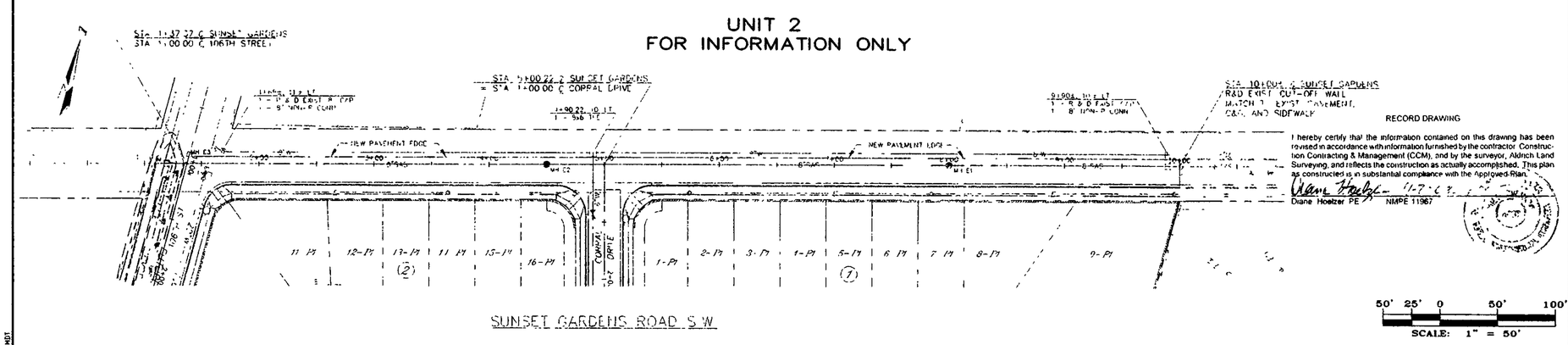
STORM SEWER HYDRAULIC SUMMARY

LOCATION	Q (cfs)	V (fps)
MH 3A–4A	257	13.0
MH 4A–5A	244	12.8
MH 5A–6A	239	12.2
MH 6A–STUB	239	12.1



INTERIM 8'Ø DROP MANHOLE STRUCTURE DETAIL

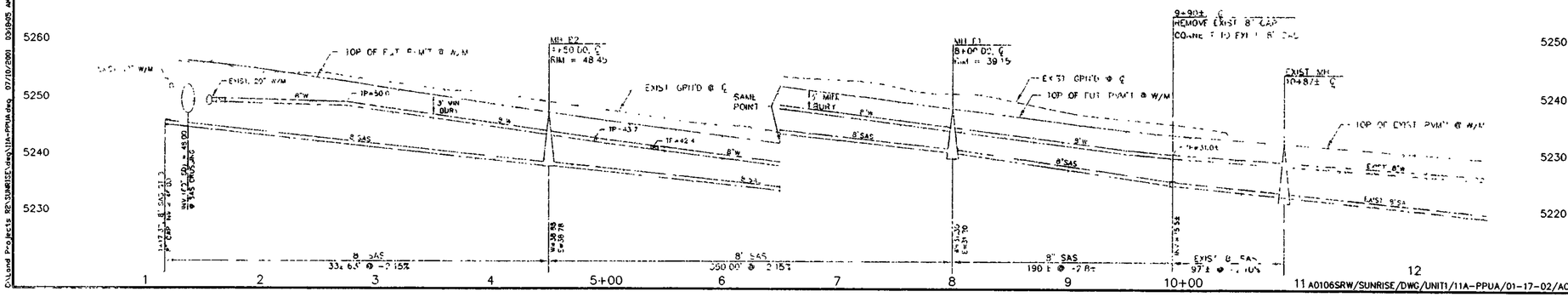
NTS



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor Construction Contracting & Management (CCM), and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Diane Hoelzer 11-7-01
Diane Hoelzer PE NMPE 11967



AS BUILT INFORMATION
CONTRACTOR: C.C.M. Inc.
WORK STAKED BY: ALS DATE 8/02
INSPECTOR'S ACCEPTANCE BY: DHG DATE 4/02
VERIFICATION BY: ALS DATE 4/02
DRAWINGS CORRECTED BY: DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO

BENCH MARKS
ACS MONUMENT "3-L9"
THE STATION IS 49.2' EAST OF CENTERLINE OF 98TH ST AND IS 0.13 MILES NORTH RYNO CT. S.W.
X = 353055.34, Y = 1480156.08, C-G = 0.99996736
ELEV = 5187.036(SLD. 1929) (ELEVATION REVISED 1995)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	ALDRICH LAND SURVEY P.O. BOX 30701 ALBUQUERQUE, NM 87190-0701 (505) 884-1990	

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A DATE JULY -01
DRAWN BY HC-A DATE JULY -01
CHECKED BY DLH DATE JULY -01

dmg
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

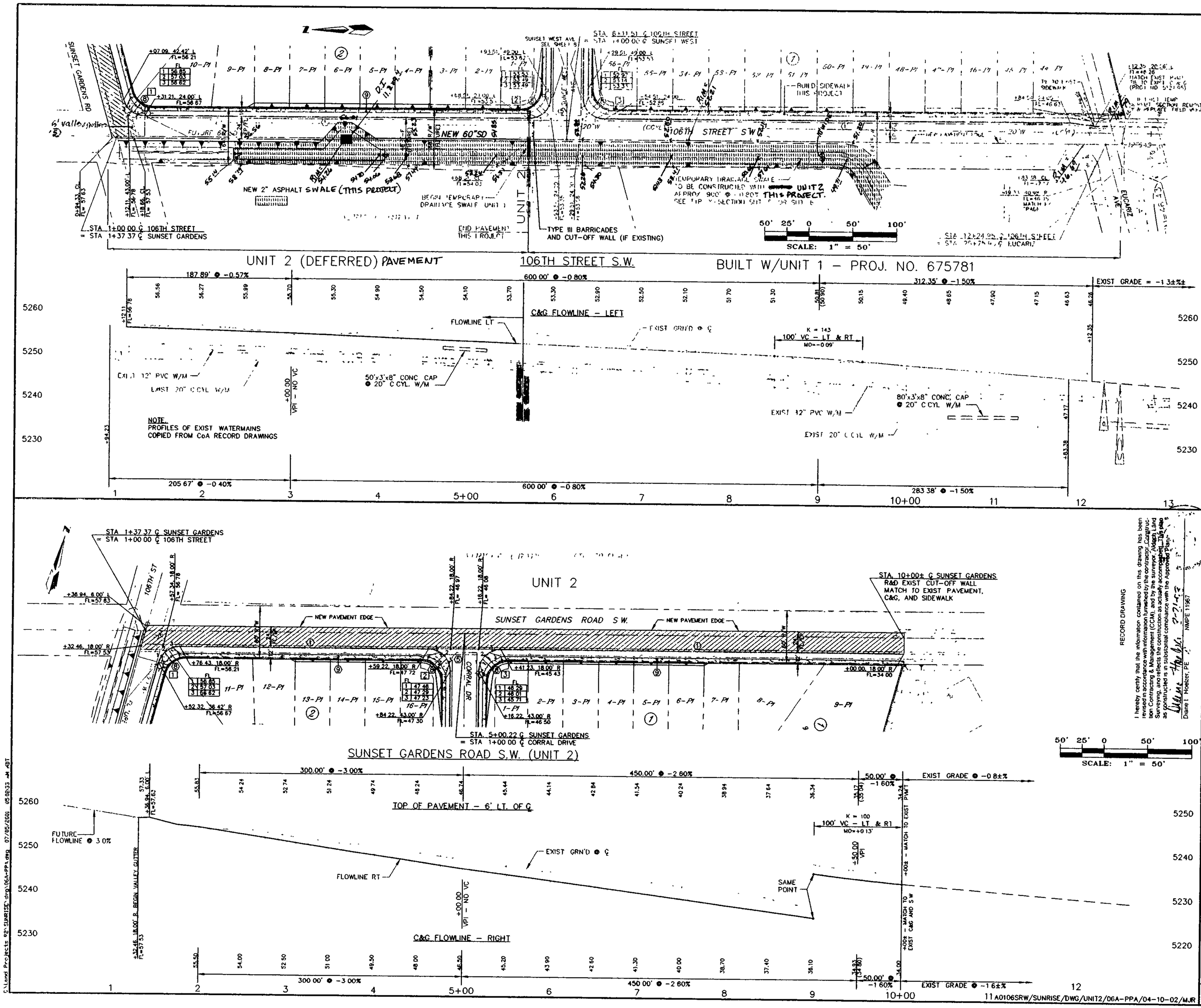
SUNRISE RANCH WEST – UNIT 1
106TH STREET AND SUNSET GARDENS ROAD S.W.
SEWER AND WATER PLANS & PROFILES

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | Mo./DAY/YR | Mo./DAY/YR

CITY PROJECT No	ZONE MAP NO	SHEET	OF
675781	L-8	12	19

11 A0106SRW/SUNRISE/DWG/UNIT1/11A-PPUA/01-17-02/ACH

C:\Land Projects 82\SUNRISE\dwg\11A-PPUA.dwg 07/10/2001 03:19:05 AM MDT



KEYNOTES

1. STANDARD CURB & GUTTER PER STD DWG 2415
2. ROLL-TYPE CURB & GUTTER PER STD DWG. 2415
3. 10' TRANSITION FROM STD CURB & GUTTER TO ROLL-TYPE CURB & GUTTER
5. CONCRETE VALLEY GUTTER PER STD DWG 2420
6. CONCRETE VALLEY GUTTER PER STD DWG 2421
7. SPECIAL CONCRETE VALLEY GUTTER PER STD DWG 2422
8. ALL WHEEL CHAIR RAMP AT STANDARD C&G PER STD. DWG 2441
9. 4' SIDEWALK PER STD DTL 2430 THIS PROJECT

106TH STREET
CURVE DATA – DESCRIBES FACE OF CURB

1. Δ= 74°44'41" R = 25.00' L = 32.61' T = 19.10'
2. Δ= 90°02'12" R = 25.00' L = 39.29' T = 25.02'
3. Δ= 90°02'12" R = 25.00' L = 39.29' T = 25.02'

SUNSET GARDENS
CURVE DATA – DESCRIBES FACE OF CURB

1. Δ= 74°44'41" R = 25.00' L = 32.61' T = 19.10'
2. Δ= 90°01'41" R = 25.00' L = 39.28' T = 25.01'
3. Δ= 90°01'41" R = 25.00' L = 39.28' T = 25.01'

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Construction Surveying & Management (CCM), and by the surveyor, Aldrich Land Surveying, and that the information shown hereon is accurate and complete as constructed to a substantial compliance with the Approved Plan.

Duane I. Hoeksema, PE NMPE 11967 — 2-21-03

dmg
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SUNRISE RANCH WEST – UNIT 2
106TH STREET AND SUNSET GARDENS ROAD S.W.
PAVING PLANS & PROFILES

DESIGN REVIEW COMMITTEE — APPROVED — DESIGN REVIEW COMMITTEE

CITY ENGINEER — APPROVED — 11-8-2002

LAST DESIGN UPDATE	Mo./DAY/YR	Mo./DAY/YR

CITY PROJECT No	ZONE MAP NO.	SHEET	OF
675782	L-8	7	17

AS BUILT INFORMATION
CONTRACTOR: CCM Inc. DATE 9/02
WORK STAKED BY: ALS DATE 11/02
INSPECTOR'S ACCEPTANCE BY: DMG DATE 11/02
FIELD VERIFICATION BY: ALS DATE
DRAWINGS CORRECTED BY: DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
ACS MONUMENT "2-L9"
THE STATION IS 49.2' EAST OF CENTERLINE OF 98TH ST. AND .15 0.13 MILES NORTH RYNO CT., S.W.
X = 353055.34, Y = 1480156.08, G-G = 0.99967636
ELEV = 5187.036(SLD 1929) (ELEVATION REVISED 1995)

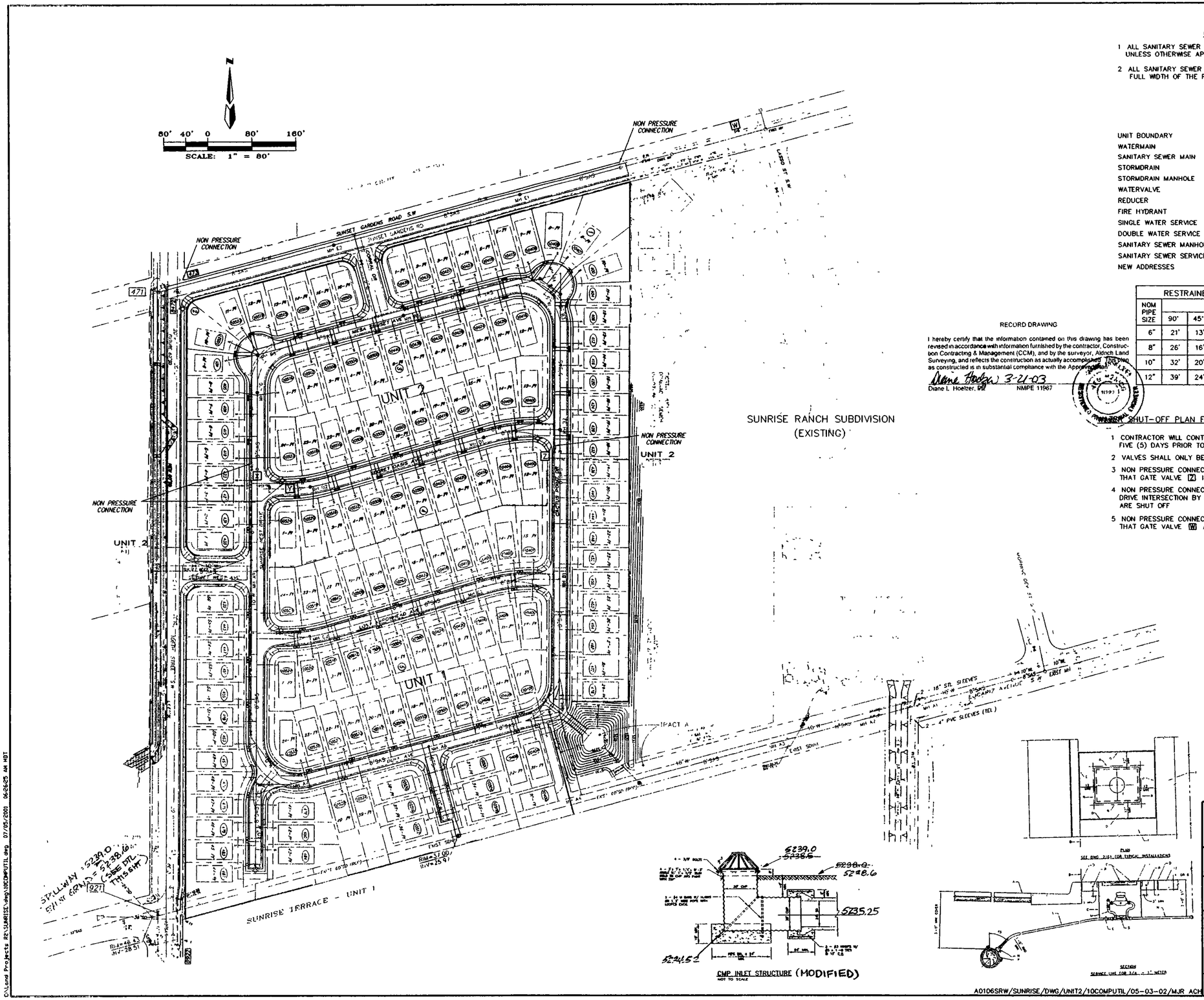
SURVEY INFORMATION
FIELD NOTES

NO	BY	DATE
	ALDRICH LAND SURVEY	
	P.O. BOX 30701	
	ALBUQUERQUE, NM	
	87190-0701	
	(505) 884-1990	

ENGINEER'S SEAL
PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — 11710 — DUANE I. HOEKSEMA
05-09-02

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A DATE JULY -01
DRAWN BY HC-A DATE JULY -01
CHECKED BY DLH DATE JULY -01



GENERAL NOTES

1 ALL SANITARY SEWER MANHOLES SHALL BE 48" DIA., TYPE E UNLESS OTHERWISE APPROVED BY THE ENGINEER

2 ALL SANITARY SEWER SERVICES SHALL EXTEND UNDER THE FULL WIDTH OF THE P.U.E.'S

LEGEND

	NEW	EXISTING
UNIT BOUNDARY		
WATERMAIN	W	W
SANITARY SEWER MAIN	SAS	SAS
STORMDRAIN	SD	SD
STORMDRAIN MANHOLE		
WATERVALVE		
REDUCER		
FIRE HYDRANT		
SINGLE WATER SERVICE		
DOUBLE WATER SERVICE		
SANITARY SEWER MANHOLE		
SANITARY SEWER SERVICE		
NEW ADDRESSES	1700	

RESTRAINED JOINT LENGTH SCHEDULE

NOM PIPE SIZE	BENDS 90°	45°	22.5°	11.25°	VALVES, TEES (L_D), DEAD ENDS	TEES (L_D)
6"	21'	13'	7'	4'	15'	5'
8"	26'	16'	10'	5'	18'	7'
10"	32'	20'	11'	6'	22'	10'
12"	39'	24'	14'	7'	27'	13'

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Construction Contracting & Management (CCM), and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Diane Hoelzer 3-21-03
Diane L. Hoelzer, PE NMPE 11967

SHUT-OFF PLAN FOR SUNRISE RANCH WEST UNIT 2 (L-8)

1 CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200, FIVE (5) DAYS PRIOR TO NECESSARY SHUT-OFF

2 VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES

3 NON PRESSURE CONNECTION ON CACTUS POINT DRIVE BY CHECKING THAT GATE VALVE [Z] IS SHUT OFF

4 NON PRESSURE CONNECTION AT SECRET OASIS AND SUNRISE WEST DRIVE INTERSECTION BY CHECKING THAT GATE VALVES [X] AND [Y] ARE SHUT OFF

5 NON PRESSURE CONNECTION ON SUNSET GARDENS BY CHECKING THAT GATE VALVE [W] AND [473] ARE SHUT OFF

1. GENERAL NOTES
1 THE METER SHALL BE SET UPSIDE A COPPER-SETTER COPPER-SETTER HEIGHT 18" FOR 1 METER, 7 FOR 3/4" METER
2 THE VALVE AND METER REDIRECTS BOX SHALL BE LOCATED UNDER THE LID REMOVED. WHEN THE VALVE AND METER ARE INSTALLED IN A SINGLE METER BOX, THE METER REDIRECTS SHALL BE 18" FROM REMOVED SIDE OF THE LID OPENING
3 METER BOX LOCATION TO CONFORM TO DWG 2361
4 WHEN CONTRACTOR DOES NOT INSTALL AFTER CONTRACTOR SHALL PROVIDE REMOVABLE PLUGS FOR END OF COPPER-SETTER
5 EXISTING CONCRETE TO BE SAWCUT

CONSTRUCTION NOTES
A STREET SURFACE
B BACK OF CURB
C CAST IRON METER BOX COVER AND LID SEE DWG 2362 OR 2369
D 1/2" EXPANSION JOINT
E CURB STOP LOCATE INSIDE METER BOX
F SIDEWALK OR DRIVEWAY
G METER TOP OF METER TO BE 12-18 BELOW COVER
H CORP STOP
J MAIN WATER LINE
K TAPPING SADDLE
L COPPER SERVICE LINE
M COPPER SETTER
N BALANCE TO PROPERTY LINE WITH INSULATED (P) COPPER FITTING
O CONCRETE PAD REQUIRED IN ALL AREAS
R 24" REBAR CONTINUOUS ALL AROUND METER BOX
S STABILIZER BAR 12" LONG X 1/2" DIAMETER GALVANIZED STEEL PIPE
T METER BOX LID SHALL BE FLUSH WITH SURROUNDING SIDEWALK

REVISIONS	CITY OF ALBUQUERQUE WATER 3/4" - 1" METERED SERVICE LINE INSTALLATION DWG 2362

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SUNRISE RANCH WEST - UNIT 2

COMPOSITE SEWER AND WATER PLAN

DESIGN REVIEW COMMITTEE: APPROVED
CITY ENGINEER - APPROVAL: APPROVED
LAST DESIGN UPDATE: Mo./DAY/YR | Mo./DAY/YR

CITY PROJECT No	ZONE MAP NO	SHEET	OF
675782	L-8	11	17

A0106SRW/SUNRISE/DWG/UNIT2/10COMPUTIL/05-03-02/MJR ACH

AS BUILT INFORMATION
CONTRACTOR: CCM, Inc. DATE 9/02
STAKED BY: ALS DATE 11/02
INSPECTOR: DMG DATE 11/02
FIELD VERIFICATION BY: ALS DATE 11/02
DRAWINGS CORRECTED BY: DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS MONUMENT "9-L8"
THE STATION IS 49.2' EAST OF CENTERLINE OF 98TH ST. AND IS 0.13 MILES NORTH ROND CT., S.W.
X = 353055.34, Y = 1480156.08, G-G = 0.99967636
ELEV = 5187.036(SLD 1929) (ELEVATION REVISED 1995)

SURVEY INFORMATION
FIELD NOTES

NO	BY	DATE
	ALDRICH LAND SURVEY, P.O. BOX 30701, ALBUQUERQUE, NM 87190-0701, (505) 884-1990	

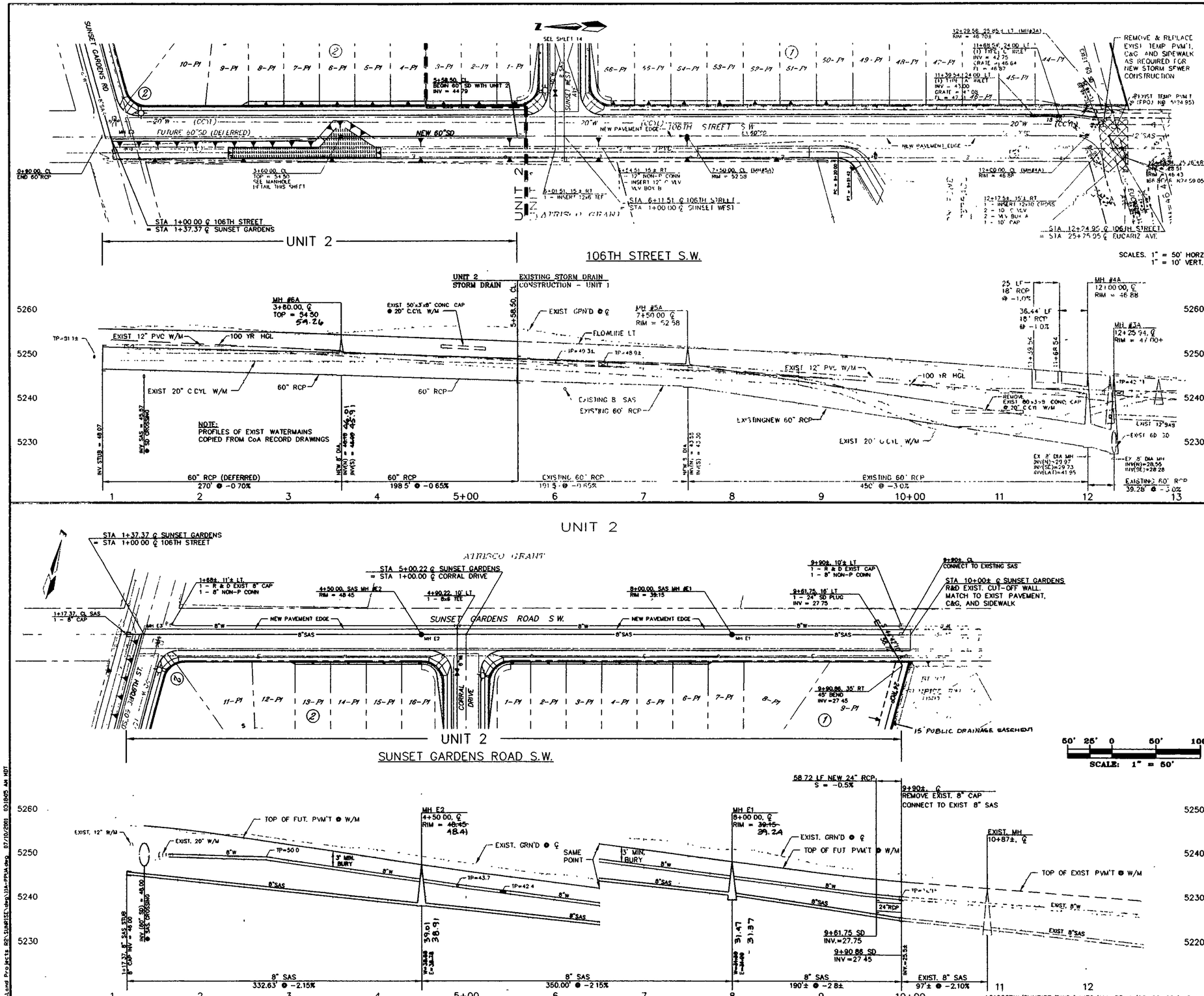
ENGINEER'S SEAL
NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 11018
05-09-02

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HO-A DATE JULY-01
DRAWN BY HO-A DATE JULY-01
CHECKED BY DLH DATE JULY-01

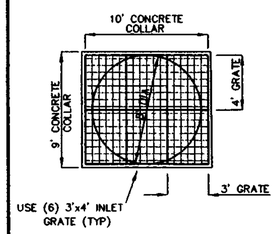
C:\Land Projects R2\SUNRISE\dwg\10COMPUTIL.dwg 07/05/2001 06:26:25 AM MDT

F:\A0106SRW\SUNRISE\DWG\UNIT2\10COMPUTIL.DWG Thu, Mar 06 11:02:47 2002 ACH



STORM SEWER HYDRAULIC SUMMARY

LOCATION	Q (cfs)	V (fps)
MH 3A-4A	257	13.0
MH 4A-5A	244	12.8
MH 5A-6A	239	12.2
MH 6A-STUB	239	12.1



INTERIM 8'ø DROP MANHOLE STRUCTURE DETAIL

NTS

A0106SRW/SUNRISE/DWG/UNIT2/11A-PPUA/05-20-02/MJR NHE

D:\Land Projects R2\SUNRISE\dmg\11A-PPUA.dwg 07/10/2001 03:18:05 AM MDT

AS BUILT INFORMATION
CONTRACTOR CON-TEC INC.
STAKED BY ALS DATE 9/02
INSPECTED BY DMG DATE 1/02
ACCEPTANCE BY DATE
VERIFICATION BY ALS DATE 1/02
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS MONUMENT "9-L8"
THE STATION IS 49.2' EAST OF CENTERLINE OF 98TH ST. AND IS 0.13 MILES NORTH RYNO CT., S.W.
X = 355055.34, Y = 1480156.08, G-G = 0.9999878
ELEV. = 5187.036(SLID 1929) (ELEVATION REVISED 1992)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
ALDRICH LAND SURVEY
P.O. BOX 30701
ALBUQUERQUE, NM
87190-0701
(505) 884-1990

ENGINEER'S SEAL
NMPE 11967
05-21-02

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A DATE JULY -01
DRAWN BY HC-A DATE JULY -01
CHECKED BY DLH DATE JULY -01

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor. Construction Contractor A Measurement Certification has been received from Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.
Diane L. Hencier, P.E. NMPE 11967 3-2-03

dmg
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SUNRISE RANCH WEST - UNIT 2
106TH STREET AND SUNSET GARDENS ROAD S.W.
SEWER AND WATER PLANS & PROFILES

DESIGN REVIEW COMMITTEE: APPROVED
CITY ENGINEER APPROVAL: PREPARED
LAST DESIGN UPDATE | Mo./DAY/YR | Mo./DAY/YR

CITY PROJECT No 675782 | ZONE MAP NO. L-8 | SHEET 12 OF 17

Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

IN REPLY REFER TO:
Case No.: 96-06-013P

Community: City of Albuquerque, New Mexico
Community No.: 350002
Panel Affected: 0032 C
Effective Date of
This Revision: DEC 01 1995

102-D

Dear Mayor Chavez:

This is in response to a request for a revision to the effective Flood Insurance Study and National Flood Insurance Program (NFIP) map for your community. Specifically, this responds to a letter dated September 29, 1995, from Ms. Susan M. Calongne, P.E., City/County Floodplain Administrator, City of Albuquerque, regarding the effective Flood Insurance Rate Map (FIRM) for the City of Albuquerque, New Mexico. Ms. Calongne requested that the Federal Emergency Management Agency (FEMA) revise the effective FIRM to show the effects of a stormwater detention basin at the northwest corner of the intersection of Eucariz Avenue and 106th Street, and a storm drain along Eucariz Avenue from the stormwater detention basin at 106th Street to the Snow Vista Channel Pond. This request follows up on a Conditional Letter of Map Revision, which was issued on July 31, 1995.

All data required to complete our review of this request were submitted with Ms. Calongne's September 29 letter. All fees necessary to process this Letter of Map Revision (LOMR), a total of $1,370, have been received.

We have completed our review of the submitted data and the flood data shown on the effective FIRM, and have revised the FIRM to modify the floodplain boundary delineations of a flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) along an unnamed arroyo within the Sunrise Terrace Unit 1 property.

The excavated detention basin at the northwest corner of the intersection of Eucariz Avenue and 106th Street intercepts flows upstream of Sunrise Terrace Unit 1. A 60-inch-diameter storm drain adjacent to the north boundary of Sunrise Terrace Unit 1 provides an outfall for the detention basin and extends from 106th Street to the existing Albuquerque Metropolitan Arroyo Flood Control Authority Snow Vista Channel Pond, which discharges into the Snow Vista Channel that runs along the eastern boundary of Sunrise Terrace Unit 1. As a result of the detention basin and storm drain project, the Special Flood Hazard Area, the area inundated by the base flood, along the unnamed arroyo within Sunrise Terrace Unit 1 property was removed from the effective FIRM for the City of Albuquerque, New Mexico, from just upstream of 106th Street to the downstream Sunrise Terrace Unit 1 property limit. The detention basin is designated Zone A, an area inundated by the base flood, and both the detention basin and Snow Vista Channel contain the base flood. The corporate limits just north of Sunrise Terrace Unit 1 have been revised to reflect the current corporate limits in this area.

DEC 1 1 1995

The modifications are shown on the enclosed annotated copy of FIRM Panel 0032 C. This LOMR hereby revises this panel of the effective FIRM dated October 14, 1983.

The revisions are effective as of the date of this letter; however, a review of the determination made by this LOMR and any requests to alter this determination should be made within 30 days. Any request to alter the determination must be based on scientific or technical data.

Due to present funding constraints, we must limit the number of physical map revisions processed. Because we are processing a revised FIRM for Bernalillo County in our countywide format, we will not republish the FIRM for your community at this time. Preliminary copies of the countywide FIRM, which presents information from the effective FIRMs for your community and other incorporated communities in Bernalillo County, were submitted to your community for review on September 30, 1993. Revised preliminary copies of the countywide FIRM were submitted to your community for review on May 15, 1995. We will incorporate the modifications described in this LOMR into the countywide FIRM before the FIRM becomes effective.

The Snow Vista Channel Pond is only shown in part, and the Snow Vista Channel improvements are not shown as part of this LOMR because of the mismatches that would be created between adjacent FIRM panels. The data to support the design of the Snow Vista Channel and Pond were submitted to FEMA on December 31, 1993, with a restudy of this area. These improvements are recognized for this LOMR, and will be incorporated into the revised FIRM currently being processed.

This response to Ms. Calongne's request is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, including this request, and for ensuring that necessary permits required by Federal or State law have been received. With knowledge of local conditions and in the interest of safety, State and community officials may set higher standards for construction, or may limit development in floodplain areas. If the State of New Mexico or your community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence.

The basis of this LOMR is, in whole or in part, a channel-modification project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities assure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the channel modification rests with your community.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare an article for publication in your community's local newspaper. This article should describe the changes that have been made and the assistance that officials of your community will give to interested persons by providing these data and interpreting the NFIP maps.

The map panel as listed above and as revised by this letter will be used for all flood insurance policies and renewals issued for your community.

This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria are the minimum requirements and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM to which the regulations apply and the modifications described in this LOMR.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in Denton, Texas, at (817) 898-5127. If you have any technical questions regarding this LOMR, please contact Mr. Alan Johnson of our staff in Washington, DC, either by telephone at (202) 646-3403 or by facsimile at (202) 646-4596.

Sincerely,

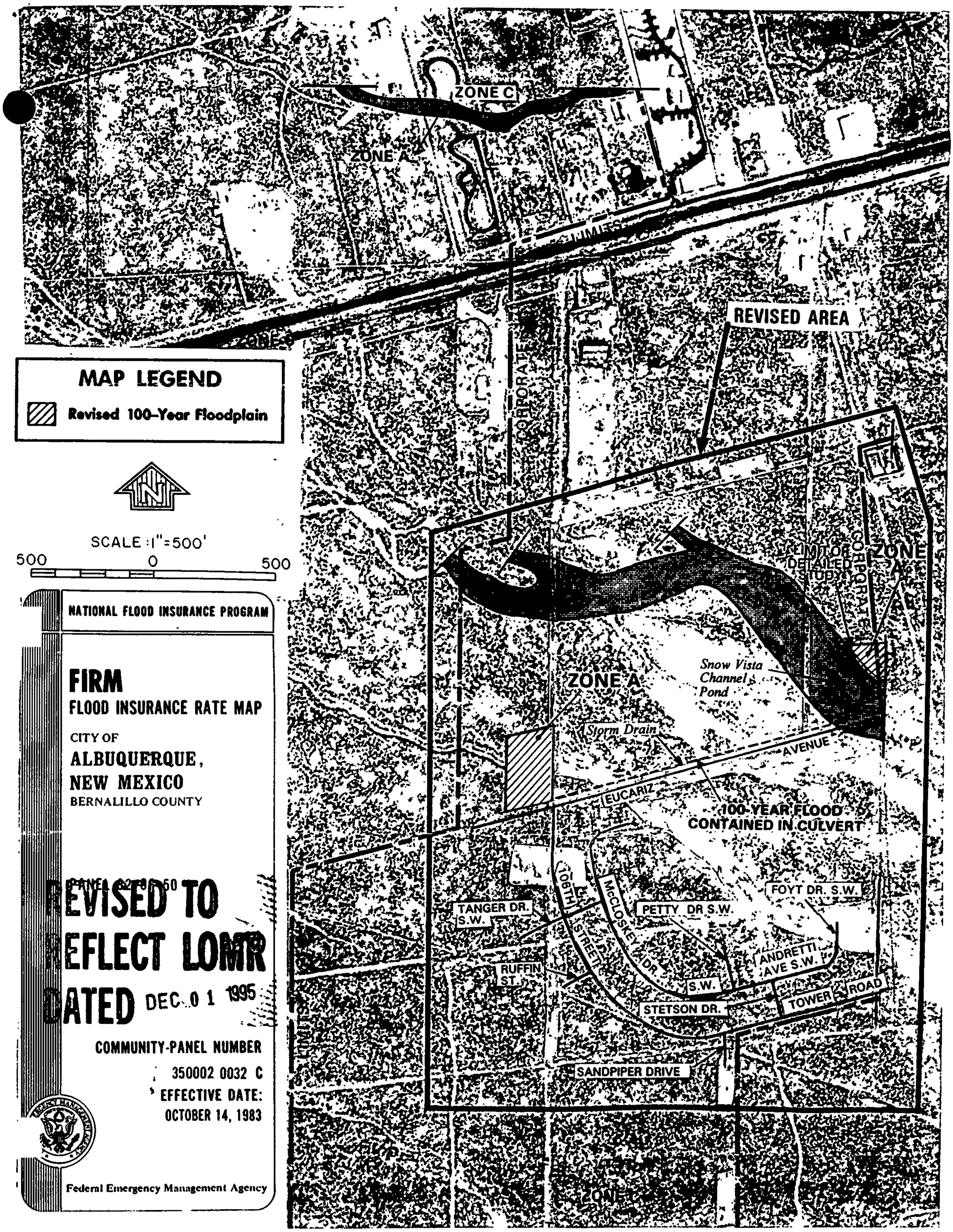
Michael K. Buckley, P.E., Chief
Hazard Identification Branch
Mitigation Directorate

Enclosure

cc: Ms. Susan M. Calongne, P.E.
City/County Floodplain Administrator
City of Albuquerque

Mr. Charles M. Easterling, P.E.
President
Easterling & Associates, Inc.

Mr. Charles A. Haegelin
President
Curb, Inc.



MAP LEGEND

Revised 100-Year Floodplain

SCALE: 1" = 500'

500 0 500

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

CITY OF

ALBUQUERQUE, NEW MEXICO

BERNALILLO COUNTY

PANEL 32 OF 50

REVISED TO REFLECT LOMR DATED DEC 01 1995

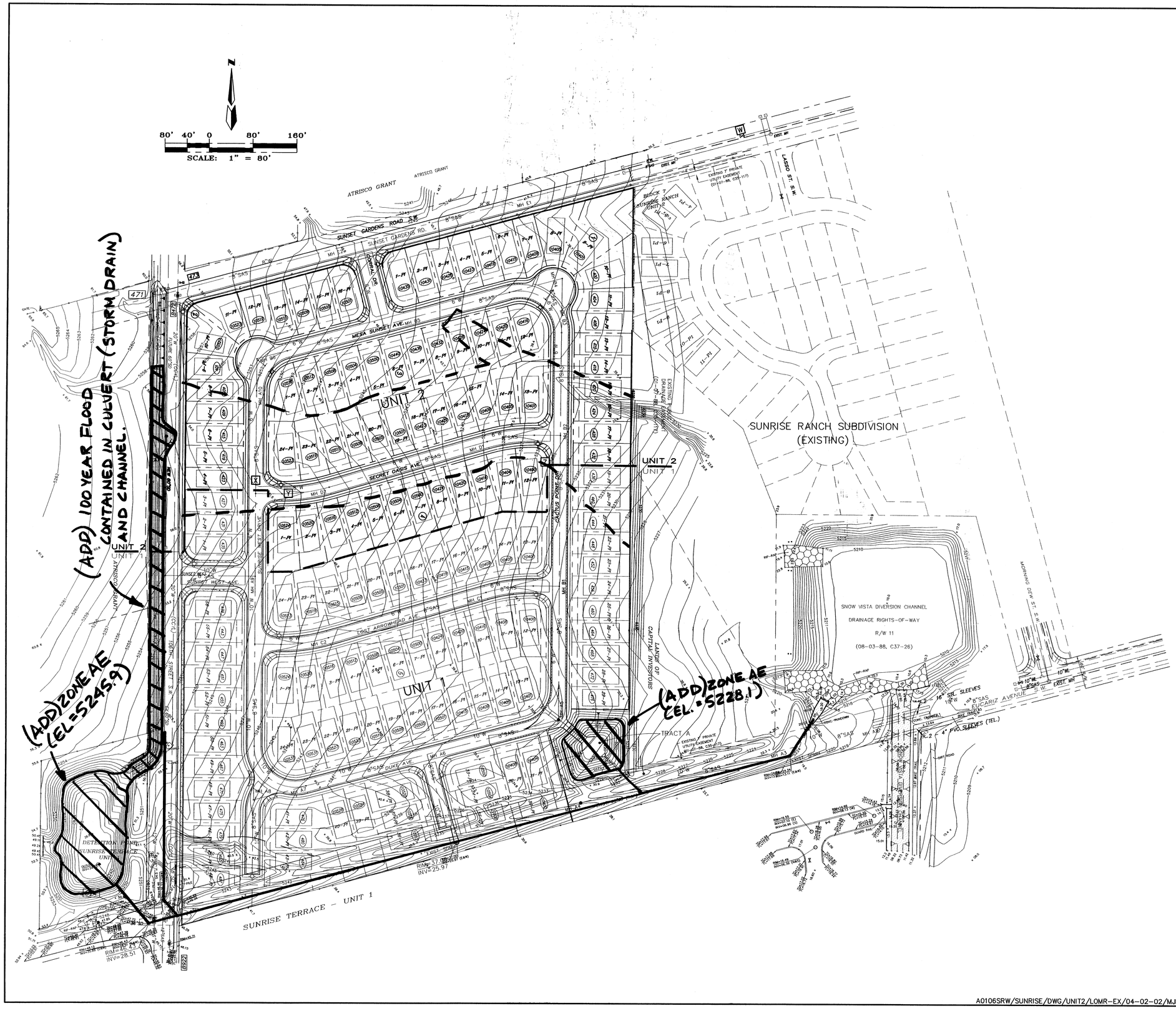
COMMUNITY-PANEL NUMBER

350002 0032 C

EFFECTIVE DATE:

OCTOBER 14, 1983

Federal Emergency Management Agency



AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS MONUMENT "9-L8"
THE STATION IS 49.2' EAST OF CENTERLINE OF 98TH ST.
AND IS 0.13 MILES NORTH RYNO CT., S.W.
X = 353055.34, Y = 1480156.08, G-G = 0.99967636
ELEV = 5187.036(SLD 1929) (ELEVATION REVISED 1995)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	ALDRICH LAND SURVEY	
	P.O. BOX 30701	
	ALBUQUERQUE, NM	
	87190-0701	
	(505) 884-1990	

ENGINEER'S SEAL

3-15-03

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	

DESIGNED BY: HC-A DATE: JULY -01
DRAWN BY: HC-A DATE: JULY -01
CHECKED BY: DLH DATE: JULY -01

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SUNRISE RANCH WEST - UNIT 2

REVISED FEMA FLOOD PLAIN

RECEIVED APR 03 2003 HYDROLOGY SECTION

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
675781/675782	L-8	1	1

F:\A0106\dds\A0106SRW\SUNRISE\dwg\UNIT2\LOMR-EX.dwg Wed Apr 02 14:29:11 2003 D. MARK GOODWIN & ASSOCIATES. PLTTED BY: mike